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HENRY V. POOR, Editor.

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The Mechanical Engineering department of this paper will be under the charge of Mr. ZERAH COLBURN.

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American Railroad Journal

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Saturday, August 27, 1853.

Railroad to the Pacific.

The subject of a railroad to the Pacific is excitof the country. The necessity for such a work is felt by all, while the desire to secure its construction over some one of the numerous routes proposthe great route of commerce between the Atlantic the general interest in this subject, therefore, is becoming stronger and stronger, in particular sections of the country, it is fast getting up to a fever that will come before that body.

searches will be very likely to show a favorable cession to our present stock of information. must be selected for the proposed road.

ed, gives rise to a very warm local interest in the ing the question of convenience of travel and majority, than upon the real merits of the case. these.

a railroad across the continent. Those chiefly veys may prove to have been very erroneous. claiming public attention, are the South Pass route, Mr. Benton even goes so far as to argue in favor the more Central, advocated by Mr. Benton, which of the route proposed by him, from the fact that ponetrates the mountains near the head waters of it is the one pursued by wild animals in their mithe Arkansas, and the Southern route through grations from east to west. Till we have better Texas, and New, and perhaps through a portion of evidence, our opinions must be made up upon Mexico, proper. All these routes have their ad-such as we can get. We are soon to have somevocates, by whom they are claimed to be thing more tangible than mere conjecture. Engisuperior to the other. A fourth route may be neering parties, under the direction of the general shown to exist through the explorations of Gov. government, are now actively at work, and by the Stevens of the new Territory of Washington, by commencement of the next session of Congress the head waters of the Missouri river. His re- we shall probably have a large and valuable acroute as far as grades are concerned, as upon the These surveys will undoubtedly be prosecuted high northern latitudes pursued by him, the with vigor till their object shall be fully attained.

whole country seems to expand into one vast When the physical characteristics of the various plain. But however it may be as to the extreme routes shall have been settled, the more difficult northern route, we believe it to be pretty well set-question of commercial consideration will then tled that three feasible ones exist, one of which come up. In the former case there is no room for opinion. In the latter we have little more than o-The route eventually to be adopted will, we will pinion upon which to base our conclusions ; for alassume, be the one best adapted to accomplish the though the present routes of commerce and travel objects chiefly in view :-- the convenience of the may be well determined, it will be claimed that commercial classes, and cost of construction.- their direction has been given to them from the These are the considerations that alone should in-necessity of the case, and from the want of suitafluence the question of location. We are yet with- ble avenues, the construction of which will entireout the evidence necessary to determine this point, ly change the existing order of things; In decidand to claim superiority for one route over an- ing the question of route, therefore, based upon other, is simply begging the question. The most the argument of commercial uses, or convenience. extensive and thorough explorations, accompanied a real or fancied interest in the result, will probaby the most accurate surveys, are necessary to bly exert a paramount influence. What is for the ing a constantly increasing attention in every part decide the question of superiority between the interest of the representative, by a very natural several routes proposed. When this point shall process will be believed to be the interest of the be settled others of paramount importance, constituent, and the question of route will be much perhaps, will still have to be disposed of, involv-more apt to be decided upon the principle of the

Southern and Western States. To be placed on commerce—to accommodate which is the great In the discussion of this subject before congress. end and aim of the road. It may by no means the following will be likely to be insisted as the imand Pacific coasts, and, as some believe, between follow, that because a route is the shortest and mediate termini, or starting places for the pro-Europe and Asia, is too great an advantage not to least expensive, it is to be preferred. Other ob- posed road; viz: Chicago, St. Louis and Memphis, be the object of the most strenuous effort. While jects may entirely outweigh considerations like or more probably New Orleans, for the extreme southern route. Should the South Pass be adop-As before stated, we have no sufficiently accu-ted the interests of the two former may be made rate knowledge of the physical characteristics of to coincide. As far as the great eastern commerheat. This interest will soon manifest itself at the the various routes, to determine which are entitled cial cities, and a majority of our railroads, are connext session of Congress, and the above project to the preference. This knowledge is to come cerned, Chicago would seem to be the convenient will undoubtedly become the most exciting topic from the results of future explorations. Our in- point of starting for the Pacific. Toward this city formation thus far, rests chiefly upon the observa- tend all the great lines of railroad running west There are no doubt several practicable routes for tions of voyageurs, whose impressions exact sur-from Boston, New York, Philadelphia and Balti-

more. It has the advantage of being accessible proposed. Treat all with the same partiality, and from the sea for a large class of sailing vessels, and freight can probably be laid down there cheaper than at any other point in the interior, at equal distance from the seaboard. But these are merely thrown out as suggestions, which may be ent.rely outweighed by considerations in favor of the other points named.

It is at present supposed that the general government must in some way become party to this work, from its national importance, and vast cost, which is regarded as too great for individual enterprize. The greater portion of the line of the road will run through territory belonging to the United States, and which are uninhabited. There will certainly be a strong opposition to the government aiding the project, except by grant of lands, from constitutional objections. But these we are satisfied must come from a small minority. Such an obvious necessity for the action of government generally is apt to override all theoretical or technical objections.

We question the expediency of having the general government directly connect itself with such a work upon other grounds; for the reason that it can be built without its aid, and having purely a commercial character, it should be left entirely to private enterprise. In the first place, the general government is incompetent to properly construct and to superintend a railroad, and particularly one of such magnitude as the proposed, and as only one line of road would be attempted to be constructed by it, its action would undoubtedly create great dissatisfaction in other parts of the country, not equally favored. We are satisfied that at least one road would be constructed by the private capital of the country, with such aid as the general government might properly bestow in liberal grants of land, and contracts for the transportation of government property and mails. The task is not so formidable as might be supposed. The distance from the Mississippi to the Pacific coast must be something less than two thousand miles. Now this is less than three times the length of the Illinois Central railroad, a work which is being entirely built upon a credit based upon the value of 2,500,000 acres of wild land. It is expected that in this instance the proceeds of the lands will reimburse the debt of the company, leaving the stock of the road a bonus to its owners. Estimating the Pacific road to cost six times as much as the Illinois Central railroad, let congress grant, if necessary, ten times as much land as was granted to the Illinois road, and here is at once a basis for a credit sufficient to build a railroad to the Pacific. We have no doubt that should government make an appropriation of 20,000,000 acres of land to a responsible company who would undertake to construct a railroad from some point on the Mississippi river, in the state of Iowa, for instance, that in six months the means necessary for this purpose could be secured. We name some point in Iowa assuming a route substantially based upon Lake Michigan to be the route best adapted to the commercial wants of the country. Such however may not be the case. The selection of route should be left to the judgment of private interest, having in view the physical characteristics of the various ones proposed. If more than one road can be built at the same time, let government extend the same encouragement to more than one, or to all that are

then leave the choice of route to the sagacity of private interests. We feel assured in such case that there would be little danger of an unwise choice of route, or that the road would not be much better and more economically built, and managed in a manner more conducive to the interests of the public, than it would be in the hands of the government. The rates of charges may be regulated by law, but we should be content to leave them to the discretion of the company, believing that their interests and those of the public exactly harmonize, and would be made to do so in time.

We have in this country nearly 15,000 miles of railroad in operation, and by the first day of January, 1855, we shall have more than 20,000; all of which, with one or two exceptions, have been the work of private companies. To say, therefore, that with our vastly increased means, with the strength that \$600,000,000 invested in our roads would give, with the aid in lands that government might extend, and above all the eclat that would be thrown around a work which was to carry us forward to the Pacific, a work of only 2000 miles, and involving an outlay of not more than \$100,000,000, less than three times the cost of the Erie railroad, is beyond the ability of our whole people in their private capacity, so to term it, is what we are not disposed to admit. In fact we believe its accomplishment to be an easy task. It was impossible five years since; but the progress we have made, and the confidence which we have acquired during that time, now renders the achievement a comparatively easy one. It is practicable by private enterprise, and we never desire to see government attempt any work which is possible for private enterprise to accomplish.

We hope in the execution of the above project, wise councils will prevail. The people have been equal to the work of covering the country with railroads. They certainly are no less able to reeat what they have already done, and much more, to construct a railroad to the Pacific, the magnitude of which, measured either by its length or cost, will not equal a tithe of what they have already achieved.

Indiana and Illinois Central Railway.

The Board of Directors of this Company met at Decatur, Ills., on the 10th of August, and confirmed a contract for the construction and equipage of the entire line from Indianapolis to Decatur, with Messrs M. C. Story & Co., of New York. The contractors furnish 70 per cent, of the entire amount necessary to construct and equip the road, only requiring the company to raise 30 per cent. Twenty-two thousand dollars per mile includes every thing, except ballasting, and the work is to be completed by the 1st of December, 1855. Before the work can be commenced, however, about \$300,000 of additional stock must be raised at

The Oakland and Ottawa Railroad.

The iron for this road is bought—the right of its construction entered into. These things make the completion of the road certain. The necessary stock has been taken, and we are informed that be at work at different parts along the line.

Banks and Banking.

The object and office of money is to assist in the transfer of other kinds of property from one person to another. Familiar illustrations are used to show this office:—a hatter wishes to purchase a barrel of flour; but as the flour merchant does not want hats in return, the former will look about for some article that he does want. If he cannot get the exact thing, he will endeavor to exchange his hats for something that the merchant can exchange for the object of his desires; and as gold and silver are proved by universal experience, to be more common objects of desire than any other values whatever, and as it is found that men, as a general rule, stand ready to exchange whatever they have for them, the hatter, whom we make to represent all who have anything to sell, will naturally seek to turn his products into the precious metals, because he is certain with these to straightway possess himself with that of which he stands in need.

We have briefly stated the causes that led to the adoption of gold and silver as a circulating medium. It was not the result of a conventional agreement. The custom which prevails is based upon natural laws, which precede all conventions. Gold and silver, from their uses, are regarded, and properly, as the most valuable of all material substances, and their use as money results from a desire to convert what has a limited and circumscribed, into more general and universal values; into articles that every body is sure to want, under all circumstances. A hatter with a basket of hats under his arm, might starve for the lack of a customer; but as soon as he has exchanged his wares for gold and silver, he has the key that unlocks every body's treasures, to his desires.

It is easy to see, however, that where gold and silver are employed as a medium between buyer and seller, they are in one sense so much dead capital. So employed, they are not productive property. This will be seen from the fact, that could we dispense with their use, and send the amount now employed as money out of the country, and bring back in return provisions, and instruments of labor, we should in this way convert unproductive into productive capital, and be so much richer by the transaction.

By the use of credits we are enabled partially to achieve such a result; to dispense with the use of gold and silver in many of the transactions of business, and effect a large saving by their disuse. The saving effected by the use of credits may be well shown by the following illustration. A Cotton manufacturer in Massachusetts sends his fabrics to a jobber in New York for sale, who parcels them out to smaller dealers all over the United States. Before they finally reach the consumer they may have passed through a half a dozen hands. These different persons are the mediums for conveying the goods from the manufacturer to the consumer Were each of the several transfers which are made accompanied by the delivery of an equal value of gold and silver from one party to the other, it is easy to see that values, exceeding five or six times that of the property sold, must be used to efway for most of it is secured, and the contract for feet its various transfer, adding largely to the cost of the transactions, and diminishing the profits of the manufacturer, and increasing the cost to the consumer. But supposing in each case a credit to the laborers to build the road will in a few days be extended to all the parties, till the one immediately in contact with the consumer shall have

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collected from him the value of the article, and shall have returned it through the same channels through which the goods had been received, a very considerable saving, it is plain to see would be effected.

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Now in business, the reason of credits is founded upon the saving effected in the manner stated. When legitimately used they are confined to transactions of the character described. Their abuse consists in extending them to parties who are not the mere channels of communication between the producer and consumer, but to persons who use these credits as property, and make them the basis of business operations.

Many of the most important transactions of business are not only effected by the use of credits, but even when the interposition of money becomes necessary, we use the symbol instead of the suhstance, and in this manner dispense almost entirely with the actual use of gold and silver. We use the symbol because it costs less than that for which it stands. Paper money is supposed to be a mere representation of actual value which stand behind it, and into which it can be changed at the option of the party holding it, and it is the belief that it can be instantly converted into gold and silver ruin. that causes it to be taken as money.

Now without going into a discussion as to the ratio that should exist between the amount of gold and silver held by a bank, and the amount of paper money in circulation, or issued, and questions of a similar character , which might well fill volumes, instead of columns in our Journal, we would state that the expediency of issuing symbols of value is sanctioned by experience, and is one of the most marked characteristics of modern commerce, and is one of the principal causes of its wonderful progress and expansion. To dispense with its use would strike a serious blow on the prosperity of our country would be felt alike by all classes, by the consumer as well as the produrich one.

With these remarks we come to the leading object of this paper, which is to show the legitimate office and duty of Banks of discount. They supply a credit which takes the place of gold and silver, in the purchase and sale of property. Their issues therefore should bear a precise ratio to the extent of the business operations of the communiproperty from one person to another. Money has no other object than this, and should there be at any time an amount of the precious metal existing in the shape of money, in excess of the wants of business, the surplus would be either exported, or turned to other uses equally beneficial. When there is an excess of paper money, on the other hand, we treat it for the time being, as we do our excess of gold and silver, and make it the basis of, when it is only fitted to serve as an instrument, in business operations. When therefore, the issues of banks are in excess of the wants of business, an apparent value is created, which, treated as a substantial one, becomes the basis of other transactions not warranted by the condition of the community or individuals, and which often ends in ruin to both. The credit which was treated as capital, is suddenly withdrawn, and men who sup-

eral depreciation of property. Should there be an count. The bills of a country bank 20 miles from excess of gold and silver currency, we send it abroad, and import in return other values; but an as are the bills of the most remote bank in New debts without supplying the means of payment.

For the reasons enumerated it is considered a fundamental principle of good banking to discount none but business paper; paper that represents a regular business operation; a transfer of property from one hand to another. So long as this rule is pursued, banks harmonize with, and advance the general prosperity of the country. ders it impossible for any country bank to keep They are in fact one of the great causes of its prosperity, promoting the advantage of the poor as well as rich. They supply a credit which enables us to dispense with an equal amount of real value, which we use for other purposes. So long, therefore as banks confine themselves to discounting paper taken in the regular and ordinary course of business, they are exercising their proper and legitimate function. The moment they exceed this limit they become the great promoters of speculation and extravagance, and may, as they did in 1837, involve the entire business community in

There is no doubt that in this community the principles of sound banking are but little understood. Our banks loan, and loan all they can, for the sake of making money. Many of them as readily loan on a fancy stock as upon a note taken for a cargo of sugar. The consequence is that speculators being able to get money "on easy terms," as the phrase is, blow their bubbles to an enormous extent. By and by the banks themselves cannot keep up their credits, are forced to take in their issues, to make good their promises by redeeming the symbols of, with real, money. For a period longer or shorter they find themselves unable to grant any facilities or credits. Business relations of all kinds are disturbed. Fancies colcer, by the poor and laboring man as well as the lapse, and the value of the aggregate property of such a community as New York, may be reduced \$20,000,000 in a day; all from a vicious principle in banking. Witness the recent pressure for money and the decline of stocks in the New York market, under the curtailment of the excessive issues of our city banks.

We hear a great deal said in praise of the New York Free Banking Law, which is a general obty in which they are situated; or to speak more ject of imitation by other States. It may have directly, to the healthy or necessary movement of its excellencies, but we believe it peculiarly calout. It is generally supposed that because the bill-holders are made safe by it, the business of banking cannot be over done. This is a grand mistake. The security which the law requires to be deposited in the archives of the State is one of the principal reasons why banking is overdone. The banks feel compelled to make large loans to enable them to pay a good interest on the amount invested. They therefore issue and keep in circulation as many bills as possible, irrespective of the wants or demands of business. Had the law required all the banks in the State to have made their bills par in the city of New York, it would high order of talent and skill. have effected a greater good than any provision in it. It would have been impossible for country banks to have kept up a circulation in excess of posed themselves rich to day, find themselves poor situated. As it is, their issues are not even paper streets giving an example of what might be ex-

to-morrow, and all suffer more or less by a gen- money, and can be made such only by a large dis-New York are at double the discount in this city, excess of paper money only leads us to contract England, for the redemption of which there is in fact no legal security, and about whose affairs nothing whatever is known. The cause of this singular state of things is, that by a mutual arrangement, all the New England banks make their bills par in Boston, and they are received by all the banks in the payment of notes with equal favor as their own bills. This arrangement renin circulatiou a larger number of bills than are needed to meet the immediate business wants of the community, as all excess is immediately sent to Boston, and in the natural course of trade goes into the city banks, and those issuing them are at once called upon to take them up. In this manner the issues of banks are restrained to the limits of the business wants of the community. A sound system of banking is the result, with complete safety to the bill holder, as experience proves, by the operations of business, rather than by any legislative enactment, and which renders the bills of the New England banks a much more desirable circulating medium to our people even, than the bills of our country banks, which are secured beyond a peradventure.

Excursion.

New Jersey Locomotive and Machine Company. Last Friday, 19th inst., the proprietors of the New Jersey Locomotive and Machine Company went with their operatives, numbering some 300, men and boys, on an excursion to the Crystal Pal-

They left Paterson in the regular train at 7 40 A. M., after marching in procession through the streets with a band of music and several appropriate Banners and also a miniature Locomotive and Tender, a very neat little thing, made and presented to them by Mr. Lane, of Paterson.

The Engine "R. L. Colt." which drew the train, was built by their company for the New York & Erie Railroad, in the incredibly short space of 18 working days after they received the order. She was built in a great hurry for a freight engine, to run on the narrow gauge between New York and Paterson. She is, however, run with the passenger trains and makes her time with perfect ease. The Railroad Company are much pleased with her, she having proved an excellent engine in every respect and very economical, having cost but culated to promote the abuses we have pointed little for repairs since she was built, which was in

> The men having arrived in Duane street marched to the 6th Avenue cars, prepared for them in College Place, and proceeded to the Crystal Palace. Here they spent five hours in a quiet and orderly manner, being known by the badge which they were upon the occasion. They scattered themselves about the Palace and proved themselves by the interest they manifested in the works of Art of every description there collected from every quarter of the Globe, a very intelligent body of men, and capable of appreciating works of a

At 31/2 o'clock they returned by the 6th Avenue cars to Chambers street and thence marched to the Ferry. After landing in Jersey City they the wants of the community in which they were marched in procession through several of the pected of the Jersey City folks when they get their Locomotive works in operation. If Jersey City turns out as fine a body she need never be ashamed of them.

They all went up to Paterson at 51 o'clock and arriving there partook of a most excellent dinner prepared by Mr. Luce, proprietor of Congress Hall, which gave general satisfaction, and was abundantly tested by the men who lacked no appetite after the fatigue of a very long day of enjoyment.

The whole expense was borne by the Company and they deserve much praise for their disinter ested act of kindness and magnanimity. The whole affair was got up in a spirit of good will and without any taint of selfishness,

After dinner several appropriate toasts were given, and several neat and appropriate speeches were made, of which Labor of course was the theme. It would indeed seem as though things had wonderfully changed since the days of Henry VIII and the Field of the Cloth of Gold .-Then Nations and Monarchs met for the display of Pride and Extravagance; now they meet to build and fill Palaces with works of Industry and Art, and Labor is honored before all things. Labor is becoming honorable and respected, instead of being regarded as mean and degrading.

The New Jersey Locomotive and Machine Company went into operation under their charter in April 1861. Since that time they have built 52 Locomotives. The works have been under the management of Mr. John Brandt since the fall of 1851, and it is no more than fair to say that all the Engines built under his management are of the very first order. Mr. Brandt has been connected with several railroads as Superintendent of Motive Power, and having entire control of that department for about 19 years, or almost from the first introduction of Railroads into the country .-He left the New York and Eric Rail Road in September 1851 and was presented by the "employees" of that road with a splendid service of plate costing about \$800-as a testimonial of their es teem.

The Engines built by this Company are models of durability, being built in the most seviceable manner to stand the wear which they must neces sarily receive. They are always built of the best materials, selected and tested with the greatest care, no cheap materials are ever used, and any inferior articles invariably rejected.

The various roads which have their engines in use always give them the highest enconiums and say they have no superiors. They will turn out 30 engines this year.

Paterson has four Locomotive shops turning out among them all some 13 or 14 Engines a month, and the Engines made there, for service, economy and beauty, will compare well with the whole world.

The oldest establishment in the town of the kind is that of Rogers, Ketchum & Grosvenor, which commenced making locomotives about 15 years ago. The next is the New Jersey Locomotive and Machine Company, having been in operation under a partnership, since 1845. Wm. Swinburne & Co., and Danforth, Cooke & Co., are of more recent date, having been established one and

Paterson has now a population of about 16,000,

branch of business.

The New Jersey Locomotive and Machine Co., made five superior, large, full crank Engines, for the Ontario, Simcoe & Huron Railroad Company of Canada, this year. They are almost the only engines which have yet crossed the Lakes or St. Lawrence into Canada. There is now a Locomotive shop in Toronto but it is limited in capacity and will not be able probably to make anything like the number of Engines which will be needed in Canada the next few years, especially should the Grand Trunk line be successfully carried on The duties of 121 per cent are however greatly in favor of such establishments there, and with the freight, a great impediment in the way of American builders. The English builders, however have more freight and the same duties to pay, se that Canada must get many of her Engines here for years to come. They have a great inducemen to do so in those they have received from this Paterson Company, as they are of very superior workmanship, built on scientific principles, and strong, serviceable machines.

One thing, it is to be hoped, this Company will adhere to, and other Companies follow their example, which is to give their engines at the time they contract to deliver them. We believe they are never behind their time, and this is a matter of great importance, much more so than people are generally aware of, in all business transactions except paying notes. In that every business man is up to the mark. If Rail Road Companies cannot get their Engines in time, they cannot build their roads in the time promised, they cannot do their business promptly any more than the monied man can fulfil his promises if his papers be not cashed at maturity. Let "Promptness" be the universal motto in every business.

Another Connection with the Mobile and Ohto Railroad.

We learn, says the Mobile Advertiser, by a let ter from Hickman, Kentucky, that a company was formed at that place on the 20th ultimo, for the purpose of constructing a branch railroad from Hickman, Kentucky, to intersect the Mobile and Ohio Railroad in Obion county, Tenn., at the point where the Northwestern Railroad from Nashville to the Mississippi river intersects or crosses our great trunk railroad. We learn that a sufficient amount of stock has been subscribed. to grade the whole line of route, and prepare it for the iron, and there can be no doubt of its early construction.

The following named gentlemen have been chosen Directors of the Company: S. Burrows, President; O. F. Young, Jeseph Keith, E. B. Fugua, Gen. Robert Matson, U. D. Kingman, A. J. Thomas, J. Edmonston, and Gen. G. W. Gibbs.

It is understood to be the ultimate design of the company to make an early extension of this road to St. Louis via Iron Mountain, thus connecting by railway the South and Southeast with the great Northwest.

Every additional connection with the Mobile and Ohio Railroad increases its prospects of business, and of course by so much appreciates the value of its stock. Our readers will see at a glance Capital.. \$17,000,000 Assumed cost. \$17,000,000 that the construction of the road above described will be not only a benefit to the railroad, but to First instalment of \$5 per share on the city also, by making a large additional area

and owes its present prosperity mainly to this of rich and productive territory measurably tributary to this port. We hope the enterprise may be carried forward to successful completion.

Illinois Central Railroad.

The president of the Illinois Central railroad company has made a communication to the board of directors of that company, detailing the present condition of the company and its progress, from which we give the following extracts:

Receipts and Expenditures to Aug. 1, 1858.

d	necespes tina 122 per		24.11	g. 1, 1000.	
d	Capital Stock.	CEIPTS,			
1.	Cash applicable to sto	elr	-	\$1,625	00
n	\$20 per share on 10,-		• • •	46,23	00
e	000 shares	\$200,000	00		
-	\$10 per share on 10,- 000 shares	100,000	60	1 1	
r,	\$5 per share on 89,298	100,000	00	-	
0	shares	446,465	00		
е	Control De la			\$746,465	00
t	Construction Bonds.				
8	To contractors and others at par	650,500	00		
r	To subscribers, \$4,000				
u	000 loan	1,289,000	00		
11	To subscribers to \$3,- 000,000 loan	322,500	00		
	To parties on special	022,000	-		
е	contract	436,000	00		
y	Instalments on \$4,000, 000 loan, for which				
r	bonds are to be is-				
e	sued	158,839	89		
,	Instalments on \$3,000,				
n	000 loan, for which bonds are to be is-				
	sued	425,300	00		
1	Instalments on \$5,000,	0.010.000			
0	000 London loan	2,912,977		6,195,117	68
1	Exchange.			0,200,221	00
t	Premium on bills, etc.			85,241	27
9	Bills and accounts pay-				-
	able			812,076	78
-	Total receipts			7,840,525	68
-	EXPE	NDITURES.			
7	Charter Expenses.				
r	Prior to organization	#51 000	-		
1	of company	\$51,299	00		
е	Company Expenses. Salaries, counsel fees,				
е	etc., etc	106,745	82		
2	Land.				
r	Land damages, right				
t	of way, etc	507,010	70		
2	Engineering.				
t	Surveys, maps, profiles etc	219,387	21		
-	Construction Account		01		
-	Graduation, masonry,				
	bridging, etc., etc	3,344,288	47		
	Iron Rails.				
2	Including transporta-	1 000 050	04		
1	tion to Illinois Equipment of engines,	1,839,859	03		
f	cars, etc	87,791	05		
3	Commissions	202,323			
-	Balance of interest ac-	99,516	26		
1	Total expenditures	00,010		6,458,216	45
1		HAND.			-
1	Cash deposits and bills				-
1	receivable	A W.		1,382,309	28

WAYS AND MEANS.

60,882 shares..... \$801,910 00

Capital Stock.

THE RESERVE TO SHARE					
Construction	m Bonds	AND DESCRIPTION	The second		
To be issued	No.			-	
at par for		100 - 1002			
rails on	404 500	00		3.2	
contracts.	404,000	00			
For earth work and	Wall .				
other con-				100	
tracts	670,000	00			
		-1.184	500 00		4
Remaining		-,,			-
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tions to					
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Remaining		_,,			
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June 15,					
1853,7 per					
cent bonds	000 000	00			
of	5,000,000	00			
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1,1853	141,000		200 00		
Remaining		2,202,	200 00		
payments					
on bonds					
sold by					
special con-					
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		404,		,489,882	9
Frehans			-0	,400,002	0
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Foreign	41 740	AA			
Bills Premium on	41,740	44			
Domestic					
Bills	110,000	00			
	,000			151,740	4
Cash.					-
On hand in					
deposit and					
bills receiv-					
able		1.382	309 23		
Less bills &		2,002,			
accounts					
payable		812,	076 78		
Y Y		570,	282 45		
Less Illinois					
state depo-					
sit appro-					
priated to interest					
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rand UI		200,	000 00	370,232	A
		11 716	- 5/ 1/ 1	1 1	
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Total means	now prov	rided		.318 765	- 2
Total means Add expendi	now prov	Aug. 1. 1	853 6	,318,765 ,458.216	4

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It is assumed that the total cost of the road and liven into blooms, &c. we trust that such is the case, and that Michigan equipment, when complete, vill be \$17,000,000, which includes, in addition to the detailed estimates of the Engineer, a liberal allowance for reap some of the benefits of the rich and ininterest on the bonds during the construction of the road, and also for contingencies not anticipat- or Iron mines.—Detroit Tribune.

ed or estimated. Nothing has occurred in the progress of the work to induce a belief that this estimate will be exceeded, unless the development of the busieess upon the portions of the road before its full completion, shall demonstrate the necessity of a more extensive equipment, or larger outlay for station accommodations than

was originally contemplated.

Our work is now in a state of rapid progress A large force is employed upon it, and materials of all kinds for the superstructure are in readi-

Sixty miles from Lasalle to Bloomington, and fifty-five miles from Chicago to the Kankakee River, are in operation. Parties are now laying track at four or five different points on the line.

We have received more than 40,000 tons of Iron since the commencement of the work, all of which has gone to Illinois or is on its way there remainder due us on our contracts, amounting, with what is already received, to 67,000 tnns, we have good reason to believe will arrive as fast as it shall be needed.

It is assumed that the road will \$17,000,000,00 cost completed ... The means are already secured, as appears by the foregoing statement, to the amount of. 15,771,981 71

Leaving yet to be provided..... \$1,228,018 29

We are at liberty to issue, by the terms of our mortgage, in the whole, \$17,000,000 of Construction Bonds. There are consequently more than \$2,300,000 of these Bonds not yet disposed of or appropriated.

We have more than 250,000 acres of land in the vicinity of the road, unincumbered by the mortgage, and subject to early sale if thought advisable, the avails of which are unappropriated exclusive of an equal number of acres appropriated to

the interest fund.

And, in addition to all this, we shall have 150,-000 shares of stock on which will have been paid only \$5 per share, 10,000 shares on which has been paid \$10 per share, and 10,000 shares on which has been paid \$20 per share, all subject to call for LIST OF TOOLS FOR BUILDING THREE ENGINES PER further instalments, in case any possible con-tingency should render such a resort necessary, though the existence of such contingency can hardly seem possible.

New Discoveries of Iron Ore.

Messrs. Lansing & Thurber have at their office, adjoining the Post Offlice, some fine specimens of Iron taken from a mine recently discovered in the Lake Superior country, within two miles of the Lake. They also have some specimens of wrought Iron made from this Ore which is of a quality equal to the best that has been made from any of the ore in that region. It has been submitted to such tests as no other iron except when heated to a "welding heat" has ever successfully endured. While cold it has been twisted and bent in every possible manner, with as much apparent ease and without showing any more indications of cracking or breaking than the purest lead. If this mine shall be found to be inexhaustible, as seems to be the case, being ten or eleven miles nearer to the Lake than the iron mountain beds of ore, it will prove a most invaluable discovery, as it can be brought to this city at so small a comparative cost. In addition to the Iron Ore, it is believed that an abundant supply of Red Ochre exists in the same mines. Specimens of the ore have been submitted to the inspection of Dr. Terry, who is of opinion that the substance exists there of an excellent quality, as we are informed. We also learn that a company is about being formed, partly of Eastern and partly of Detroit capitalists, for the purpose of working this

in general and Detroit in particular will begin to exhaustible mineral resources of the Lake Super-

There are two things which especially interest western manufacturers of iron, in regard to the expediency of organizing locomotive works in their section of the country; one is the cost of manufacturing an engine at home, another the cost of moving an engine from the east, the demand for either being supposed to be dependent on a certain price. We will give an estimate of the whole business of making locomotives as far as we can do in a general case.

To commence with the locomotive shop, we will say a desirable plan will be found described in the last number of the Journal,-desirable for its convenience for conducting the different departments, with the means of a ready communication between the whole. By that plan a convenient delivery of one part of the work to the hands of the department of the next is easily had. The shop can be cheaply built, and those operations requiring fire are conducted entirely by themselves. A good light can be readily had and a good distribution of shafting can also be made. The plan admits of any future extensions in any department without interfering with the others-The business too would be conducted wholly upon one level, avoiding the loss of room and labor occasioned by stairs.

To contain the following list of machinery, sufficient for the manufacture of three engines per month, a main shop building of 160 by 65 feet would be required; a wheel shop and wood shop in one range of 40 by 100 ft, a boiler shop 50 by 190 feet, and a blacksmiths' shop 60 by 40 feet, The following estimate embraces a full list of tools necessary, and their whole cost under present prices of machinist's labor and of materials.

14-11-11			MONTH.					
Three lathes,		feet	long;		g 6	1/2 ft	i. :	\$6300
One boring "	12	"	46	46	4	- 66		1000
Six lathes	12		· f	46	2	ft. 8		2250
Two "	12	44	f.	66	2	" 2		725
Two "	16	- 46	· .	46	2	" 8	88	920
Eight "	10	"	46	48	2	-		2600
Four "	8	**	66	66	1	" 7	48	1100
Five "	6	**	**	46		.6		900
One Planer	16 1	feet 1	ong					1150
Two Planers	10	66						1350
Five Planer	8 6	66						2250
Three polishi	ing 1	ather	8					345
Two upright	drill	8						700
Eight uprigh	t dr	ills.					300	760
Two bolt cut	ting	mac	hines.					340
One Key way	cut	ter fo	or axle	8			3.65	175
One 42 inch	blow	er				411	000	80
Sixty vises								
Ten anvils.					• • • •			115
Power saws	and	fram	PR.		• • •		***	150
One power p	nnel	she	976	****	***			600
One travellin	g ho	istin	e anno	rotu				250
One trip ham	mer	TIDEATE	e appe	MI 450U			•••	300
Three cranes	101						***	200
Tone Dies C	hnol	- T	haille !					
Taps, Dies, C	nuci	as, I	rids,	wc .		***		500
Total for t	oolg					1		25750
One steam er								w15

stroke, with two flue boilers, 42 inches in \$3200 440 828 \$4468

Grand total for machinery \$30,218

The above estimate includes no allowance for a foundry, which would require two cupolas and two

or three cranes, with flasks, ladles, etc., costing perhaps \$1500 more.

The shops and lands will cost from \$10,000 to \$12,000. The working capital should be a com mand of \$100,000, and should be made up o good orders, and good credit, with \$10,000 cash and a good stock, say enough for one months op erations, of castings, copper, bar iron, etc.

The next thing is the cost and the profit o making locomotives. For this purpose we shall assume the case of a first class outside connected engine, built west of the Alleghanies, and allow a nearly as we can the prices paid for materials and an advance of ten per cent. on the price paid in Boston for labor. We will give our esti-mates upon a 15 inch cylinder engine, having four six-feet drivers with Bowling tires, and four truck wheels; 46 inch boiler, weighing, withou tubes 6400 lbs. and containing 3200 lbs of solid Making Boiler..... brass tubes, equal to 775 square feet of tube surface; solid forged frame, link motion and full stroke pumps. Tender to carry 11/2 cords of wood and 1600 gallons of water.

Two 15 in. cylinders cast in loam	2500	lbs a 4 cts.	\$100,00
Two 15 " pistons all iron castings for do	325		
Four 15 " cylinder cov- ers	550	**	
Two steam chests and			
Two cross heads	800 200		
Four driving wheels	6800	**	
Twelve truck wheels			
Other engine castings			
Other tender castings	1750	- 44	

20,525	43/4	cts.\$667,06

\$767,06

For pumps, valves, etc.	320 lbs 40 "	
For oil cups	20 "	
ments	300 "	
Maria de la companio	680 " a 30	\$204,00

Brass castings are 35 cts. per lb. in the Eastern

	markets.					
	Brass castings, Bab-					
	bitt lined					
í	One set packing rings.	75	Ibs			
	Connecting rod boxes	100	8.6			
	Truck and tender axle					
	boxes	100	66			
8	Other boxes	100				
	thought	-		(197)		2
	Provention - fort ment in	375		1 34	cts.	127,

A CONTRACTOR OF THE PARTY OF TH	4001,00
FORGING AND BAR IRON.	
Frame in forged bars 2200 " a 61/2	\$143,00
Truck and tender axles 1600 : " 51/2	88,00
Driving axles 1300 " " 61/2	84 50
Forged braces, piston rods, slides and crank	12 - 30 E 15 - 15 15 - 15 E 15 - 15 15 - 15 E 15 E
nine 800 " " 71%	60 00
Connecting rods 600 " " 81/2	51 00
Four 6 feet tires 3200 " "1112	368 00
Driving and Truck	
springs 900 " "12½	112 50
Bar Iron not included	
above 6500 " " 41/6	292 50
AND SERVICE OF THE PROPERTY OF THE PARTY OF	

_		
g	BOILER AND TENDER TANK.	00
	2800 lbs. common iron in shell a 6 cts. \$168 2500 " shapes, extra quality	00
0	and size " 61/ " 162	50
-	2500 " tank iron "416" 112	50
f	3200 " solid brass tubes "30 " 960	00
	(Copper tubes will cost 39 cts. per pound.)	
,	Angle iron and rivits 50	00
2	All the transfer of the state o	00
of	\$1453	00
	L ABOR	
11	Finishing cylinders and steam chests\$125	
d	" Pistons, packing and rods 22	00
	" Connecting rods 85	00
8	" Driving and truck wheels and	
3,	axles	00
3	" Frame and jaws and setting up	
i-	same	00
	" Other running work	00
g	" Brass work not included above 45	
r	Setting up engine 400	
t	Setting 160 tubes	00

MISCELLANEOUS. Coppersmith s labor, including stock for pipes and sheet iron work; stock for

Setting up tender and making frame

Other wood work....

100 00

100 00

60 00

Making tank

Forgings

Painting

lagging boiler and making sparker	350	0
One 5 inch steam whistle	18	0
One bell, 120 lbs. a 34 cents	40	8
480 lbs tender springs a 121/2 cents	60	0
Making water hose		0
Lumber	40	0
Tools furnished	40	0
		_

RECAPITULATION.		
1ron Castings	\$767	-
Brass Castings	331	
Forgings and bar iron		
Boiler and tender tank		
Labor		
Miscellaneous		
	6794	

Under a proper organization of labor, machines could be completed in Detroit, Chicago, St. Louis, Pittsburgh or Cincinnati, for \$6,800 each, and which would command a ready sale at \$8,500, leaving a net profit of \$1,500, after deducting expenses of carrying on the business and of delivering the engine to the purchaser.

Thus we find that with a direct first outlay of \$50,000, and a credit of from \$90,000 to \$100,000, the total value of the machines built will be \$306,-000, produced at a cost of \$252,000, leaving a profit of \$54,000.

The difference in the price of eastern machines does not arise so much from differences in the price of materials and labor, as from the different ways of building engines. The Boston style of engine has generally been built with a boiler of simple and cheap construction, cheaply built frames, cheap truck frames, and in some cases from materials imported at a low price. The Baltimore engines which are sold for \$9,500, are very cheaply built, and command their extraordinary high price only by the protection of patent monopolies covering many parts of their construction. The Paterson engines combine the most thorough construction and effective proportions of any engines of our acquaintance, and it is upon an imitation of their successful workmanship and material that western shops will be able to compete with outside

ty of materials in the west, such as iron and copper, will reduce the amount of stock used in engines, and insure a better article when completed. We would not be afraid to use Lake Superior iron of 1/4 inch thickness in the furnaces and shells of locomotive boilers, in place of common English iron of 3/8 inch thickness, and consequently of half as much more weight. The soundness of this and of the Missouri iron would prevent any necessity for using copper in the furnaces by which a large amount would also be saved yearly. It might also be found better adapted than any other iron for the manufacture of tires, and might therefore be successful in the place of the Lowmoor or Bowling tire.

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The annual saving in fuel would be, for a shop of the capacity of three engines per month, \$2. 500, less at Pittsburgh and other towns accessible 330 00 to coal, than in Boston.

It will be an object with western manufacturers to secure the services of experienced engineers 60 00 and designers, for unless they succeed in produc-... 275 09 ing a first class, acceptable style of work in the beginning, their efforts will be crushed, and railroad companies would patronize eastern shops. We dare say that unless they build better engines than are sent to many their roads from eastern shops, they will fail of success. They must take advantage of the excellence of their materials and of the best experience they can procure in any

The whole success of a western shop will depend. upon its management. The business of building locomotives cannot be carried on with any success by men unacquainted with it.

The protective tariff which the western builder will enjoy, is the cost of delivery of Eastern built engines on Western roads. The materials necessary to build a locomotive could be shipped in a rough state at a cheaper rate than the finished engine. The delivery of engines built at the East is, and must continue to be, very much embarrassed by the break of gauges at Buffalo, Cleveland and other important shipping ports on the lakes, and also by the very necessity of lake carriage, as locomotives can only be carried on the decks of vessels at great risk and at a large expense for handling. The cost of shipping a locomotive, of \$9000 value, from Boston to Detroit, when made over a disturbing gauge and vessels on Lake Erie, will be for the month of October, as

,	IOHOWS.		
	Railroad truckage of Engine from Boston		
	to Buffalo, 530 miles at 20 cts.,	\$106	00
	Railroad freight of Tender, drivers &c.,		
	say 15 tons at \$10,	150 (00
,	Cartage of Engine through Troy,	24 (00
	Freight of trucks and ponies from Buffalo		
	back to Boston,	25 (00
	Changing drivers at Buffalo,	6 (00
,	Railroad dockage at Buffalo,	10 (00
	Putting Engine and tender on ship,	20 (00
	Forwarders commission,	25 (00
	Lake freight to Detroit,	185 (00
	Insurance \$9000 at 21/2 per cent	225 (
	Two weeeks time and expenses of man to	77	
	go with engine,	42 (00
	Use of trucks and ponies, (fitted at an ex-	-	
	pense of \$250 per sett),	10 (00
	with the same of the same of the same	778 (00

With an engine built for a gauge corresponding with the Western and the New York Central roads, \$1199 50 builders in the western market. The good quali- the cost of delivery would be, in the spring or

fall full \$600. Under no circumstances, nor at any time, could it be less than \$400. Any engine shipped to St. Louis would be for a 5 ft. 6 inch track, which is the gauge west of the Mississippi, and would require truckage over either or all of the 4 ft. 816 inch, the 4 ft. 10 inch or the 6 feet gauges intervening, and could not be delivered for less than \$1200, or 15 per cent. on its whole

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Let western manufacturers consider these facts. They can compete successfully with eastern manufacturers in the quality and cheapness of materials. They possess the requisites of cheap land, cheap food and cheap fuel, and can deliver their engines directly from their shops into the tracks of their roads, an advantage not possessed by the Boston or the Paterson builders, who pay from 50 to 100 dollars for trucking each machine in the streets before it reaches any railroad track.

These advantages in comparison with eastern shops may be stated as follows. A Massachusetts shop turned out nineteen locomotives in a certain period, during which the consumption of coal at the shop reached \$1900 in value which sum in Pittsburgh could not have exceeded \$250. Every engine had 3/8 inch iron, worked into the boilers, which had it been of best iron, partly 1/4 and partly 5-16 inch thick would have saved 1300 lbs of iron on each boiler, or over twelve tons of useless'weight on the whole number of engines. Copper tube sheets costing \$1425, or \$1175 more than iron ones would cost, were put in from the want of confidence in the thick iron used. Of these machines twelve were trucked to neighboring depots or docks at an expense of \$50 each, and seven were trucked to a greater distance at \$100 each, or \$1300 in all for truchage. Here, without regarding the loss from using poor, cheap and thick iron, we have the sum of \$4125, or \$217 per engine, clearly in favor of the western shop.

The labor upon eastern built locomotives, including forge and foundry work, does not exceed \$3000 per engine, and to secure the best and most experienced hands the western builders can draw upon a sum of from \$400 to \$1200, otherwise charged to the delivery of eastern engines. It would be greatly for the interest of Missouri and of her railroads, and in the same manner of Michigan, if some of their great railroad companies would become silent partners to the extent of \$50,000 each in large shops of this character, to be located on their lines. The capital and patronage of a lnrge railroad company would bring labor, wealth and independence to any community among whom it was thus bestowed, and would revert to their own benefit, in the benefits arising from the manufacture of engines, the saving on their own contracts, and the trade it would create over their own lines.

Belleville and Illinoistown Railroad.

The Belleville Advocate says, "we are much pleased to learn that the two locomotives designed for our road are built and shipped at Paterson N. J., for Illinoistown by the builders. The iron is expected daily. This is quite encouraging .-Meanwhile the work is steadily advancing to maturity. The unwholesomeness of the American Bottom has been a drawback on the work, and an expense to the county. We are glad to see the road proceeding as well as it does.

Journal of Railroad Law

INSURANCE ON GOODS DELIVERED FOR CARRIAGE. Common carriers being liable for goods which they have undertaken to carry have such an interest therein that they can procure policies for insurance upon them, in their own names. And this insurance interest of the carriers will continue notwithstanding the goods are transported by the carriers in vessels belonging to other persons, chartered by them for this purpose. In such a case the charterers of the vessel and not the owners are the proper parties to insure the cergo as common carriers.

DELIVERY OF GOODS FOR CARRIAGE BY LEAVING THEM ON DOCKS &c.

In order to charge a common carrier for goods delivered to him for carriage, it is of course necessary that there should be evidence of due delivery of the goods. But if a carrier agree that goods may be deposited for carriage in a particular place, and with any special notice thereof, such deposit without notice will be a sufficient delivery. And such an agreement may well be inferred if, it has been the constant practice and usage of parties to deposit goods, intended to be carried, upon the private dock of the carrier,-without any other notice than the marks affixed to the goods.

Merriam vs. Hartford and New Haven Railroad Co., 20 Con. 354.

WHAT IS IN A LEGAL SENSE AN ACT OF GOD? If it be necessary for a common carrier to avail himself of transportation by water, and his boat be stranded upon a recently formed bar of whose existence he was before wholly ignorant,-he is liable for all damages. Such an incident is not what Law regards as an act of God,-which will exonerate the carrier from liability. An act of God is some direct and violent operation of physical causes, like a tornado, an earthquake, a flash of lightning, for example. 6 Grattan

LIMITING A CARRIER'S LIABILITY BY MEANS OF A NOTICE AFFIXED TO TICKETS.

In the case of Brown vs. the Eastern Railroad Company, decided in the Massachusetts Supreme Court, last spring, Dewey J. observed.

The doctrine is gradually being incorporated into the jurisprudence of the times, that limitations of the liabilities of common carriers, for securing due notice to the traveller, or the parties for whom goods are to be transported, are to be held operative and binding upon the parties. It is so in England. Also in some of the States of this Union. Bingham vs. Rogers 6 Watts & Sag. 495; Laing vs. Calder 8 Barr 484. Swindler vs. Hillard, 2 Richardson S. C. 286.

Without questioning the right of common carriers to make reasonable limitations as to the extent of their liabilities for luggage or merchant, dize to be transmitted by them, and conceding the decisions to that effect to be sound, we are of opinion, nevertheless, that they furnish no ground for denying the plaintiff's right to maintain this

In the foregoing case it was accordingly held by the Supreme Court of Massachusetts that notice that a Railroad Corporation, " would not be liable for the luggage of passengers beyond a certain amount unless &c." printed on the back of largely. The additional trade and business the passage ticket, and detached from what ordinarily contains all that is material to the passen-

ger to know, does not raise a legal presumptithat the party at the time of receiving the ticket and before the train leaves the station, had knowledge of the limitations which the carrier had attached to the transportation of baggage.

It may be added that in the Camden and Amboy Railroad vs. Bauldalt it was held that a notice in English to a German ignorant of our language was held of no effect 4 Harris 67.

Also in Butter vs Heane 2 Campbell 415, where the limitation was printed in small type, the will generally being in larger type, the notice was held invalid.

In some English cases limitations on the face of tickets have been held to be sufficient. Austin vs. M. S. Railway Co., (11 English Laws and English R. 506. Shaw vs. York and North Midland Railway Company, 16 Railway cases 87.)

Knoxville Railroad.

The Survey of the line of this road from Knoxville to Danville has just been completed. Mr. Barker, the principal assistant engineer under Col. Pritchard, with his whole corps, reached this place on Monday last. The result of the survey shows that the country is eligible for a railroad and no serious obstacles in the way. The line surveyed passes through the counties of Knox, Anderson and Chapman in Tennessee,' and Whitley, Laurel, Pulaski, Rockcastle, Lincoln and Boyle, in this state. We are informed by Mr. Barker that the line through these counties measure 162 miles, but by connecting and running more directly from the point in Whitley, that sixteen miles of the distance are saved, and the entire line reduced to 146 miles. The engineer expresses the confident opinion that a perfectly accurate survey for location will reduce the distance to 143 miles, with fair ground to construct a railroad over, in easy grades. The maximum grade on the line run in 52 feet. In passing the Cumberland mountain at Elk Gap, the grade on the Kentucky side is 50 feet, and on the south, or Tennessee side, it is 34 feet. The entire line is represented as a very favorable one as to grades, curves, and magnitude of work. The cost of construction, it is confidently believed by the engineers, will range between \$20,000 and \$25,000 per mile. So much of the line being side cutting, right of way granted, timber. gravel, for ballast, and other material obtainable without charge, the work can be constructed at a low figure .-Danville Tribune.

The company has been organized. An efficient board of directors has been elected, who have chosen Cyrenius Wall. Esq., President.

Ajabama and Tennessee River Railroad.

We are gratified to learn that the energetic offi-cers of this road, are shoving things along rapidly. The entire section of the road between Montevello and the Coosa river, is now under contract for the grading, and the work is being shoved on with great energy. The bridge over the Coosa will soon be completed. The grading beyond the river has been completed for some time past, to within the vicinity of Jacksonville. It is expe ed that contracts for laying the cross-ties and iron to Talladega, will soon be effected. Thus we see, as little as is said about it, that this great work is progressing finely. It is the earnest desire of all, to have the road in operation and the

sire of all, to have the road in operation and the iron horse snorting in the town of Talladega, by the next 4th of July. Amen, say we.

Col. Philips, the President of the Company, and Col. Troost, the Chief Engineer, deserve great credit for the energy and determination they have evinced in sending the road forward. As soon as the road crosses the Coosa river, the process of the road will processarily increase.

our business men.—All should entertain a lively interest for the progress and early completion of the road.—State Sentinet.

American Railroad Journal.

Saturday, August 27, 1853.

Covington and Lexington Railroad.

This work is making rapid and very satisfactory progress. The road is now opened about 28 miles from Covington, and regular freight and passenger trains have been put on for this distance. By the first of September the road will be completed some 20 miles further, to Falmouth the shire town of Pendleton county. At this point the center of a large trade will be reached. The grading of the road to this point is completed, and is nearly so to Cynthiana, 64 miles from Covington. The entire work of grading is so far completed that the whole line will be in readiness for the rails as fast as they can be laid. This is being done at the rate of one halfmile per day, and which will be continued, with good weather, till the road is completed. The cost of the work thus far is within the last estimates of the company.

New Orleans and Onelouses Rathroad.

The \$1,250,000 of the bonds of the New Orleans, Opelousas and Great Western railroad company, which have been advertised for sale by bids to be received up to 15th September next have been withdrawn from the market. The agents of the company having negotiated \$500,000 of the bond sufficient for their present wants, with Messrs. Winslow, Lanier and Co.

The remainder will be held for the future action of the company.

Stock and Money Market.

There has been a marked improvement in the Stock Market since our last. Erie Railroad has advanced from 721/2 to 75. Hudson River from 68 to 70. Reading from 821/2 to 85. Other fancies not embraced in our last, also show a marked improvement. The Cumberland coal stock has advanced 4 per cent. Nicaraugua Transit, nearly as much. All kinds of stocks are boyant. Money is steadily becoming more abundant though the Banks continue to contract their loans. The new law in reference to Bank exhibits, will undoubtedly exert an excellent effect in securing a greater uniformity in their discounts and in confining them to a more ligitimate business. The following statement will show the comparatiee condiiton of the Banks for the last two weeks.

Augt. 13. Augt. 20. Decrease.
Loans.....\$94,663,283 94,074,717 558,565
Specie.....10,653,518 11,082,274 428,756
Circulation...9,451,943 9,387,727 61,216
Deposits.....57,451,504 57,307,223 144,720
Prop. Spec. 15 cts. 9 miles 16 cents 6 miles.

* Increase.

Money is yet too tight to allow much demand for bonds. Orders that have to come out for a few weeks past could hardly be filled from the difficulty of selling bills. Exchange is now at a fraction under 109‡. The increasing ease in the money market will bring up the rates and at the same time render the means of our Bankers available. We see no reason why money should not become abundant in Sept. and October with a good demand for Railroad securities.

Railway Share List.

Compiled from the latest returns-corrected every Wednesday-on a par valuation of \$100.

NAME OF COMPANY.	Miles open.	Capital paid in.	Funded debt.	Tot. cost of road and equipm't.	Gross Earnings for last official year.	Net Earnings for last official yr.	Dividend for do.	Price of Shares
Atlantic and St. LawrenceMaine.		1,538,100						
Androscoggin and Kennebec "	55	809,378	1,016,500	2,064,458	140,561	80,058	none	36
Kennebec and Portland "	72	876, 141	800,000	2,180,000	133,338		none	45
Port., Saco and Portsmouth "	51	1,355,500	123,884	1,459,384	208,669			100
ork and Cumberiand,	20 93	285,747 1.649,278	341,100 622,200	713.605 2,540,217	23,946 150,538			
Boston, Concord and Montreal. N. H.	93	1,649,278 1,485,000	622,200 none.	2,540,217 1,485,000	150,538 305,805	141,836	8	108
Cheshire	54	1,485,000 2,078,625	720,900		287,768	55,266	5	47
Northern"	82	3,016,634			328,782		5	57
Manchester and Lawrence "	24	717,543					61/2	97
Nashua and Lowell "	15	600,000	none.	651,214	132,545		8	109
Portsmouth and Concord "	47			1,400,000			none	
Sullivan "	26	1.00		673,500			none	12
Connecticut and Passumpsic Vt.	61	1,097,600	550,000 2,429,100	1,745,516 5,577,467	405 805	266,589		
Rutland " Vermont Central "	120 117	2,486,000 8,500,000	2,429,100 3,500,000	5,577,467 12,000,000			none	30
Vermont Central	117	8,500,000 1,500,000	3,500,000	1,500,000		the Vt C	ent	101
Western Vermont"	51	1,500,000 392,000	maa aaal			opened.	1-11-11	1
Vermont Valley	24						none	
Boston and Lowell Mass.	28	1,830,000		1,995,249		130,881	71/2	98
Boston and Maine "	83	4,076,974	150,000	4,092,927	659,001	338,215	7	105
Boston and Providence "	53	3,160,390	390,000	3,546,214	469,656	227,434	6	101
Boston and Worcester " Cape Cod branch "	69	4,500,000	425,000	4,845,967	758,819	331,296		101
ape cou branch	28 52	421,295 1.591,100	171,800 193,500					55
Connecticut River	52 75	1,591,100 2,850,000	193,500 500,000				71/2	92
Fall River"	75 42	2,850,000 1,050,000	none.	1,050,000			8	104
Fitchburg	66	1,050,000 3,540,000		3,623,073	229,445 574,574	232,787	6	99
New Bedford and Taunton "	20	500,000	none.	520,475	164,230	43,950	71/2	117
Norfolk County	26	547,015	819,743	1,245,927	67,251	23,415	none	62
Old Colony "	45	1,964,070	282,300	2,293,534	322,213	101,510	none	94
Caunton Branch "	12	250,000	none.	307,136	137,406	24,399	8	
Vermont and Massachusetts "	77	2,140,536	1,001,500	3,203,333	218,679	18,648	none	16
Worcester and Nashua "	45	1,134,000	171,210	1,321,945	162,109	66,900	41/2	58
Western "	155	5,150,000			1,339,873		61/2	99
Stonington R. I. Providence and Workester "	50	1 457	900 00	1 791	950 0	139,514	6	1
Providence and Worsester "Com.	40	1,457,500	300,000	1,781,498	253,690		10	
Hartford and New Haven "	62	3,000,000	472,000		600,408	332,228	none	125
Housatonic "	110		472,000	2,500,000	829,041	168,902	2 none	
Hartford, Prov. and Fishkill "	50			In progres	69,629			
New London, Wil. and Palmer "	66	558,861	800,000	1,511,111	114,410			
New York and New Haven "	61	3,000,000	1,641,000	4,978,487			7	104
Naugatuck "	62	926,000	440,000					1.12
New London and New Haven. "	55	750,500	650,000	1,380,610	Recently		none	
TOI WICH MING WOLCOSULL	54	2,121,110	701.600	2,596,488	267,561	116,965		4
Buffalo and New York City N. Y. Buffalo, Corning and N. York.		900,000		2,550,500 In progres			none	e 65
Buffalo, Corning and N. York. "Buffalo and State Line"	132 69		879 000	In progres 1,921,270	Recent	opened	none	
Canandaigua and Niagara F "	50		,000	In progres				1000
Canandaigua and Elmira "	47	425,509		987,627	76,760			68
Cayuga and Susquehanna "	35	687.000	400,000	1.070,786	74.241	23,496	6 none	e
Erie, (New York and Erie) "	464	9,612,995	24,003,865	31,301,806	3,537,766	1,691,623	3 7	72
Hudson River "	144	3,740,515	7,046,395	10,527,654	1,068,659	9 838,788	none	
Harlem "	130	4,725,250	977,463	6,102,935	681,445	324,494		57 e 32
Long Island "	95	1,875,148	516,246	2,446,391		8 44,070	none	e 32
tow Tork Colleges		22,858,600 1,579,969		5 199 00	480,137	195,847	ne	
Ogdensburgh (Northern) " Oswego and Syracuse "	118					10 000		e 20
Plattsburg and Montreal "	35 23				Recently	opened.	none	
tensselaer and Saratoga "	23 25					8 96,737		1
utland and Washington "	60	850,000	400,000	1,250,000	Recently	opened.		
aratoga and Washington "	41	899,800	940,000	1,832,945	173,545	135,017	7 none	e 3
roy and Rutland "	32	237,690	100,000	329,577	Recently	opened.		. 3
roy and Boston	39	430,936	700,000	1,043,357	Recently	opened.	none	e
atertown and Rome "	96	1,011,940	650,000	1,693,711	225,152	2 116,700		10
amden and Amboy N. J.	65	1,500,000		4,327,499	1,388,385	5 478,418	3 10	15
Iorris and Essex "	45	1,022,420	128,000	1,220,325	149,941	1 79,255		14
GW JCISCY	81 63	2,197,840	476,000					
ew dersey Cellulai	68						0 31/2	2
rie and North East "	20				Recently	opened.		. i2
larrisburgh and Lancaster "	36	783,950	688,051	1,609,494	4 200,249	9 106,932	2 8	
hiladelphia and Reading "	95		10,427,800			6 1,251,98		8
hiladelphia and Reading, "hiladelphia and Balt."	95		2,403,276				4000	7

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A STATE OF THE PARTY OF THE	0	paid	debt.	of r	office of the state of the stat	let camings f	Dividend for do	
NAME OF COMPANY.	open			equ	ast .	E	pua	
the reservoir of the last transfer	es	Capital	Funded	nd c	or l	t e	rid	Price of
e net a min. Ministra	Miles	Cal	Fu	To	Gross Earnings for last official year.	Ne 1	Ä	Pr
Pennsylvania Central Penn.	250	9 769 155	5 000 000	13 600 000	1 943 897	617,625	1	98
Pennsylvania Central Penn. Philadelphia and Trenton "	30		3,000,000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Pennsylvania Coal Co "	47				1 005 500	R15 004	7	00
Baltimore and Ohio Md.	381	9,188,300	9,827,123	19,542,307 1,650,000	349 699	615,384 216,237		62
Washington branch " Baltimore and Susquehanna"	38 57	1,000,000		1,650,000	348,622 413,673			***
Alexandria and Orange Va.	65			In prog.				
danassas Gap "	27							
Petersburgh	64 73	1,372,324	200,000	In prog.				
Richmond and Petersburgh"	22	685,000		1,100,000	122,861	74,113	none	
Rich., Fred. and Potomac "	76	1,000,000	503,006	1,531,238	254,376	113,256	7	105
South Side		1,328,722 1,400,100		In prog. In prog.	176 485	74,902	none	
Virginia and Tennessee "		3,000,000	1,500,000	In prog.	110,100	74,902	none	
Vinchester and Potomac	32	180,000	120,000	416,532	89.776		12	
Vilmington and Raleigh N .C.	161	1,338,878	1,134,698	2,965,574		153,898		
harlotte and South Carolina. S. C. reenville and Columbia	110 140	1,004,231	300,000	In prog.				
outh Carolina"	242	3,858,840	3,000,000	7,002,396	1,000,717	609,711	7	125
Vilmington and Manchester. "				In prog.				100
leorgia Central Ga.	191 211	3,100,000 4,000,000		3,378,132				122
leorgia			168,000	1,596,283	296,584	153,697	9	109
Iuscogee "	71			In prog.		71,535		
outh Western "	55	586,887	150,000	743,020	129,395	71,535	8	
labama and Tennessee River Ala. Iemphis and Charleston "	98	776 250	400,000	In prog.				
Iobile and Ohio "	33	879,868	400,000	In prog.				
Iontgomery and West Point. "	88	688,611		1.330,960	178,542	76,079	8	
outhern		835,000	541,000	In prog.		****	****	***
ast Tennessee and Georgia Tenn. Iashville and Chattanooga "	125	2,093,814	850,000	In prog. &		**** ****	****	
ovington and Lexington Ky.		1,430,150	1,100,000	In prog.				
rankfort and Lexington	29 65	357,218		584,902				
ouisville and Frankfort " Maysville and Lexington "	00			In prog.				
leveland and Pittsburgh Ohio.		1,239,450	1,371,000	2,963,756	194,429	123,306	6	96
leveland, Painesv. and Ash "	71							100
Cleveland and Columbus "Columbus, Piqua and Indiana."	135		408,200	3,655,000 2,000,000	111,798	100,404	14	96
Columbus and Lake Erie "	61							
Cincinnati., Ham. and Dayton "	-60	1,694,000	906,000	2,600,000	321,793	200,967		116
Cincinnati and Marietta " Dayton and Western "	40	810 000	550 000	In prog. 925,000	Recentle	opened.	****	94
Dayton and Michigan	20			In prog.				
Eaton and Hamilton	86							70
Freenville and Miami "	31			In prog		Committee of the commit		
Hillsboro	84	2,370,784		2.634.157	526,746	314,670	10	119
Mansfield and Sandusky "		900,000	1,000,000	1,855,000				
Mad River and Lake Erie "	167	2,387,200	1,767,000	4,110,148	540,518	113,401		96
Ohio Central	57			in prog.				
Ohio and Pennsylvania"			2,450,000			opened.		
Ohio and Indiana "								
Scioto and Hocking Valley " Toledo, Norwalk and Clevel'd "				. 16	Recently	opened		150
Xenia and Columbus	54	1,092,137	119.500	1,257.714	237.506	135.363	15	
Evansville and Illinois Ind.	81			1,817,140 1,257,714 In prog.				
Indiana Central "				7 17-15				
Indianapolis and Bellefontaine "	181			3000	necently	opened.		10
Lawrenceburg and Ind	1			In prog.				. 6
Larayette and Indianapolis	62	1.000			Recently	opened.		7
Madison and Indianapolis" Peru and Indianapolis"	88	1,650,000	750,000	2,400,000	516,414	268,075	10	8
Terre Haute and Indianapolis "	72			In prog. 1,353,019				ALC: UK
ROCK Island and Chicago								
Unicago and Mississinni	COLUMN THE REAL PROPERTY.	G 1255 (1955) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	No.	The second second		The state of the s	F 10 12 20 20	31000
Illingis Central III. Galena and Chicago " Michigan Southern Mich Michigan Central " Pasific Mo.	09	1 989.981	500.00	O In prog	478 546	286 15		18
Michigan Sonthern Mich	. 815	2,499,410	2,629,00	0 6,430,246	592.187	293,04		12
Michigan and a second s	-	-				The second second	-	_

New Safety Brake.

We have heretofore expressed our opinion that under the present aspect of railway travelling, nothing like security can be expected, and that until a public feeling is aroused which shall force railroad owners and railroad directors into providing double tracks, signals and telegraphs, we must urge the best preventive against the results of collisions. If trains are to be run towards each other, upon a single track, until they are about to meet, the means should be had for stopping them instantly, as we believe the passengers would suffer less in the shock from the momentum of their own bodies than from the momentum of the trains.

It is in this view that safety brakes, safety buffers and similar preventives are desirable, and should be patronized by as high authorities as railroad superintendents, car builders, repairers, and inspectors. More effectual means, those which will remove the source of accidents, can only be adopted by those higher in authority.

We are led to these observations by an examination of a model of an invention, the property of J. G. Gilbert, 216 Pearl street, in this city, which we believe will be found to afford security from the results of collisions, run offs, etc.

Its ready application to the common form of passenger cars, its simplicity and cheapness, together with the confidence which its owners possess in regard to its efficiency and success, induce us to recommend it to superintendents and car builders as being well worthy of a fair and conclusive trial. It involves a principle which has been but seldom applied for arresting the motion of trains, and which but one trial would demonstrate to be valuable or otherwise.

Mississippi and Missouri Railroad.

We learn from the correspondence of the Davenport Bee, that Mr. Farnham Chief Engineer on the Mississippi and Missouri Railroad has made a contract with responsible parties to build the first division of this road from Davenport, to Iowa City. The entire amount of stock required was not raised on the route but substantial parties in Davenport have pledged it rather than have the work delayed. This great work is fairly under way. Every thing is now in such shape that the parties who have built more railroads within the last two years than any other company of men can say that it shall go through immediately. In one year the iron horse will run to Iowa City.

Coke.

We have been shown, says the Chicago Journal, a specimen of Coke, manufactured from Illinois coal, by Mr. James Watson, at Morris, which, to all appearances, and as far as its qualities have been tested, is equal to any in use in the country,—either the product of the mines and labor of this country, or the imported article.

Mr. Watson is an experienced gentleman in the business of converting coal into coke; as the samples he furnishes will bear ample testimony, and we trust that sufficient encouragement will be given him upon a fair trial, to introduce the material extensively, as an article of fuel for general use in the "Prairie Land."

Illinois, as it is well known, is one vast bituminous coal bed, and although the raw material is of excellent quality, it only needs a little rectifying to bring it still more generally into use—particularly in furnaces, and as food for the Iron Horse, as the animal darts across our prairies.

St. Louis and Iron Mountain Railroad.

The Board of Directors of this company recently appointed a committee to solicit a subscription from the city of St. Louis, which, if obtained to the extent of five thousand shares, will, it is expected, put the road under contract, and insure its completion at an early day.

The claims of this road upon the support of the people of St. Louis have been ably stated in a memorial from the soliciting committee to the city council. It will bring St. Louis in connection with the rich mineral regions of Washington, St. Francis and Madison counties, each of which boasts of deposits of iron unrivalled for richness and extent. The quality of the Missouri iron ore is probably unequalled except by the Lake Superior iron ore, while the two are the best known for purity, fineness, and for the cohesion and ductility of their manufactured products. For rails, boilers and steam engines, and for all the useful applications of iron, and for conversion into steel, these ores possess singular merits. Of the extent of the Iron Mountain and neighboring deposits we may judge from the estimate of some of the engineers charged with the surveys of the Iron Mountain railroad, by which it appears that there is sufficient ore in the Iron Mountain, above the level of its base, for the manufacture of one hundred and five millions of tons of iron, while the Pilot Knob, Shephard's Mountain, and the adjacent banks will probably furnish a greater quantity. This shows a supply of iron sufficient for the wants of the entire world for centuries, and lying within a space of seven miles, and within eighty miles of St. Louis. Fuel for the prosecution of the iron manufacture at St. Louis will soon be supplied in abundance by the railroads communicating with the Illinois Bluffs, and in a short time cannel coal from the Osage will be supplied by the Pacific railroad.

The demand for rails for railroad construction in the western States would employ a large number of rolling mills for many years. In Missouri alone 1000 miles of road are now building and proposed for construction, which will require 100, 000 tons of rails.

St. Louis, in short, has the demand and the supply for the manufacture of railroad and other desubscription; fuel, labor, food and the other requisites are ready at hand for application, and we have no doubt that in a short time the business distant markets.

Manufactures of machinery will also commence in St. Louis, for the equipment of roads, the permanent structures of which shall also be furnished from the products of Missouri materials and Mis- till called for, and should be sorted into three dif- and who from the order and regularity visible in souri labor. Manufactures of machinery should ferent compartments at the station.—For each di- the establishment, and the tasteful and substanfollow the manufacture of the material, and from vision there is a separate book of tickets. If a tial quality of the workmanship is, evidently, masthe greater value imparted by labor to the machine than to the ore, to the engine than to the rail, will property, he would be instantly detected, because more powerfully contribute to enrich the place he would first have to say whether the luggage a mile eastward from the car factory and running where they are prosecuted. The employment of was for up or down train, or to be left till called parallel with the railroad, has been constructed a high grade of mechanical labor enlarges the for which he could not do unless he owned it .area of trade, increases the demand for works There is no necessity for any address to be on the ter; and will afford every advantage of harborage of utility and of taste, promotes instruction, and luggage. One penny per package per diem is and shipping to an extent not likely to be required more directly advances the social position of the charged for a platform ticket.

seat of its operations. The prosecution of extensive manufactures of engines and cars at St. Louis will of itself afford direct support to a community of five thousand souls; and when it is recollected that the construction of engines requires the best qualities of materials, and that the cost of carrying engines from Boston to St. Louis is one thousand dollars each, we can easily distinguish the great advantages possessed by the last named city for their manufacture.

We are sure that if the people of St. Louis intend to benefit their city,-to make it a great repairing. Another building 450 by 84 feet is also source of supply,—and to thereby reap the value going up. of the consequent attraction of capital, skill, trade and intelligence, they will devote themselves to the development of the great resources of their State, and by no better means can they start in this purpose than by placing themselves in direct connection, by the St. Louis and Iron Mountain Railroad, with the richest and most extensive deposits of the great useful mineral of the world,-We believe that the production and conversion of iron, and its exportation to the markets dependent upon external supply, will soon form a staple element in the business of St. Louis.

New way of Checking Railroad Baggage.

We learn that the following method of checking baggage, has recently been adopted with great satisfaction on two or three of the English rail-

When a train, say a down train, arrives at any particular station, a porter attends with a book. It contains tickets of stiff card board bound in the book. Each ticket is about three inches long and one inch wide. It is partly cut. So that two separate parts of it can be easily torn off. The tickets are numbered differently, but each of the three person were to find or steal a ticket, and apply for ter of his profession.

Great Western Railway.

The International Journal gives an account of the workshops of this company at Hamilton, and says the machine shops are erected, and depots and ware houses are being built, of a size calculated to astonish even those who had made the largest calculations as to Western progress. Besides the extensive buildings already up, there is now a machine shop and engine house in course of erection 145 by 156 feet, which will hold twelve locomotives besides the machinery necessary for

The workshops are leased by Messrs. Brainard. Williams, Fisher & Co.

This is not only the largest workshop of the kind, but perhaps, the most extensive manufacturing establishment of any description in Western Canada. We cannot state precisely the number of hands employed, but some idea of the extent of the work may be arrived at, when we say that the daily consumption of iron is equal to three tons wrought, and about four tons of casting, and that the entire expenditure for materials and wages amounts to one thousand dollars a day. The number of men employed however, would convey but a very imperfect idea of the quantity of work produced, as the workshop exhibits the most efficient specimens of labor saving machines that we have ever witnessed. In fact the whole railroad car. ready for the painter and upholsterer, is entirely finished by machinery.

The whole machinery of the establishment, including forge-blasts, trip-hammers, drilling and cutting apparatus, turning lathes, saws, planes, etc., etc., is moved by a steam engine of some 40 horse power.

The number of cars of the various kinds which parts of a ticket has the same number. The outer have already been put together, is about two hunpart of the ticket has a loop of tape gummed to it. dred; and of these only 18 are passenger cars. Suppose a person arrives at a station and is not These are each fifty feet in length, by about ten going on by a train for an hour or two, or a day, feet wide, and seven and a half feet high insideand is desirous of leaving a carpet bag or a trunk and will be seated so as to accommodate 76 pasat the station. He pays one penny, and in a mo-sengers comfortably. The inside is veneered with ment the taped portion of a platform ticket is mahogany; and the drapery, cushioning, trimmings fastened to the handle of the carpet bag. This etc., are as gorgeous as could well be imagined; portion bears as has been already stated, a printed and from present appearances we may expect that scriptions of iron. The capital necessary for its number also; the words "deposited at Winches- the accommodation on the Great Western will be prosecution may be readily furnished by mutual ter," or whatever the station might be, and like- at least equal to any railroad accommodation in wise the words "for down train." Another portion America. The workshops are the property of the of the ticket, with the same number as the last is railroad company, and are extensive and substantorn off, and given to the owner of the carpet bag, tial stone buildings of superior workmanship, covwill be successfully prosecuted in St. Louis under to be presented at the station when the article is ered with slate, and must have been put up at a an efficient organization, to such an extent that wanted. The words "for down train" are omitted on cost of several thousands of pounds. They are that city shall become a powerful competitor with this portion. The portion of the ticket that is left leased to Messrs. Brainard, Williams, Fisher & Pittsburgh and Cincinnati, both in local and in in the book corresponds with that given to the Co., we believe only for the period necessary to passenger, and is a check on the money taker. The complete their present contract of 500 cars. The company then become responsible for the safety of whole work, in all its branches is under the manthe property. Luggage is divided into three class- agement of Mr. Foster, a gentleman who has had es-that for down train, up train and to be left many years experience in conducting such works;

A straight wharf or quay, extending fully half in the bay, in an average of fourteen feet of waby the present generation. In rear of this breast

store-houses, etc., are to be erected immediately; so that, in a few months, a large space of what was Burlington Bay, will have become the arena of busy, bustling mercantile and commercial life.

Conductor's Watches.

The most of the recent severe railroad accidents have disclosed the fact that watches are relied upon as primary means of safety. We know that a knowledge of time is especially convenient to the travelling public, and to railroad managers, inas much as it is the means of a mutual understanding between the carrier and the carried, by which the movements of the one can be ascertained, within reasonable limits, by the other. As standards for promptness on the part of both the trains and the passengers watches are convenient merely, but they should not in any respect be essential to safety. A train should set out only upon a road protected at every point, and should be as carefully signalled throughout its progress as if it were to be expected that draw-bridges, land slips, extra trains, cattle and other obstacles were awaiting the train upon every mile of the line. The impropriety, and really the criminal negligence, of entrusting a train of passengers to the necessarily imperfect structure and operations of a watch, is evident. It is only by an assurance that the track is clear, and not by a confidence, too often fatally misplaced, that railroad travelling may be made safe. Accidents from improper management are far more frequent than those from defective machinery, while the management of a road may be easier perfected than the materials used in its structure, and in that of its equipments. The qualities of a bar of iron or a wheel are hidden, and can be developed only by experiment: the progress of a train may be protected simple rules.

The idea that the correctness of a watch is essential to safety, should be abandoned. Its liability to derangement, resulting in irregularity or stoppage, makes it the most treacherous means of protection relied upon.

Consumption of Wood and Water in Locomotives.

C. C. DENNIS, Esq., Superintendent of the Buffalo and State Line railroad, has furnished us with the following results of experiments made upon an engine running upon that road.

Express at 2 A. M., July 14th, 1853, with a train of three eight-wheel cars.

At the time of starting, 1660 gallons of water were in the tender, and two gauges of water in the boiler; 180 feet of wood were upon the tender, and the fire box was partly filled. The trip of 69 miles was made in 3 hours, without taking wood or water. On reaching Buffalo, 508 gallons of water and 82 feet of wood remained in the tender, showing a consumption by evaporation and leakage of 1152 gallons of water, equal to 16 5-7 gallons per mile; and 98 feet of wood, equal to 1 42-100 cubic feet per mile.

The "Equinox" was built by Rogers, Ketchum & Grosvenor, of Paterson, N, J., and has 141/2 in.

converted into terra firma, upon which depots, graduated variable cut-off, which cuts off the ment of assessments, as no subscriber now manisteam, generally, in running over the Buffalo and fests any reluctance in paying his assessments State Line road, at eight inches of a stroke of 22 promptly, seeing that the road is now in a prosinches. The Buffalo and State Line railroad has perous condition, under the direction of its active, grades of 36 feet per mile.

Rairoad Meetings in Arkansas.

that large meetings of the citizens of several counties have been held, to arouse an interest in the construction of the Cairo and Fulton Railroad.

July, 27th. Robert Stribling, Jr., in the chair, siness of this road." and D. A. Parker, Secretary, resolved that Hot Spring County ought to subscribe its share of the improvement fund in aid of the construction of the Cairo and Fulton road, and directed that their internal improvement commissioner should submit the same to their next County Court. It was deemed important also that the Governor should convene an extra session of the Legislature to dispose of the Cairo and Fulton grant of Lands.

A meeting at Dover on the 25th of July, W. A. Barker in the chair, and Robert Cunningham Secretary expressed, themselves in favor of the construction of the same road, and resolved that second in interest to the people of Arkansas is the construction of a branch, tapping the main road near Little Rock, and running on the north side of Arkansas river to Fort Smith. The internal improvement commissioner was also requested to petition the County Court for permission to subscribe \$20,000 in the Stock of Cairo and Fulton road conditioned upon its application to the construction of the Little Rock and Fort Smith

A meeting of the citizens of Dallas County, at Princeton, July 25th, Dr. Wm. F. Smith, Chairman, and Joseph Gray, Esq. Secretary, also de by an exercise of caution based upon exact and clared their full confidence in the success of the great road and promised their private subscriptions to their full ability, and requested the County Court to direct the disposal of the entire internal improvement fund of Dallas County in the Cairo and Fulton Railroad and its branches. An extra session of the Legislature was also strongly recommended.

York and Cumberland Railroad.

A correspondent of the Portland Argus says : "We are happy to notice, as we do from the annual report of the President, Col. C. Q. Clapp, that this railroad, after suffering many reverses from The "Equinox" left State Line with the Night 1849 to 1851, is now about to become as good paying stock as any railroad of its cost in Maine; and we think that the citizens of Cumberland and York Counties will find it for their advantage, no less than the advantage of business men in both counties, to subscribe to its stock and encourage its completion. For five months, the road has been extended and travelled to Saco river, and now has abundance of freight from that section.

The cost of construction thus far has not exceeded the estimates, and we look forward to its completion at an early day with pride and pleasure. It is gratifying to learn, that out of upwards of 6000 shares originally issued at fifty dollars per share, only 300 or thereabouts were sold by the company under its charter for delinquency of subcylinder, 22 inch stroke, and 6 feet drivers. The scribers. These delinquencies occurred before boiler contains 14811 in. tubes, Il feet long. The the road had acquired the character for permanpressure of steam during the above named trip did ency and success that it now has. No stock, we the 18th instant" (July).

work many acres of water are being filled up and not exceed 70 lbs. This engine has an independent are informed, will be sold hereafter for non-paystraightforward and vigilant President.

At present, the York & Cumberland, and Ken-We learn from the Little Rock True Democrat nebec depots are each erected on land made from the flats at Back Cove, under the orders of Col. Clapp; and some \$8,000 or \$9,000 is to be also appropriated to filling up the flats, and making A mass meeting of the citizens of Rockport, additional land to accommodate the increasing bu-

A Gigantic Steamer.

Some time since we published a statement that an English company were building a steamer of 10,000 tons, at Glasgow, intended to ply between England and the United States. The "State of Maine" newspaper gives the following as her di-

					F	eet.
Length						678
	h					
Out to	out of whee	el houses				120
Depth	of hold from	n combin	gs of ma	ain dec	k	60
Power	of engines.				6	000
Han	dook magge	nto an av		an 11/		0

This ship is being built by Scott Russell, Esq., the greatest naval architect of England, and is constructed in separate compartments, made water tight, so that in case of her bow or her stern breaking off, she would still be able to float in separate pieces.

It is also stated that Messrs. Peto and Betts, two of the contractors for the European and North American railway, are members of the "Eastern Steam Navigation Company," who are building this steamer, and that she will probably connect with the great railroad route at Halifax.

The above named also has the following speculations:

"All experience has tended to show that speed and steadiness have been attained in proportion to the increase of the size of a ship. The better opinion now is that 30 feet is the extreme depth of the highest ocean wave, and that a vessel drawing 32 feet of water, of a length of 600 feet or over, can ride the waves without being removed from a level. We have this opinion enforced upon our attention by several of the captains in the Cunard and the Collins lines.

Grand Trunk Railway of Canada

A gentleman connected with Herapaths Railway Journal has received a letter from Mr. Roney, the manager of the above railway, so well known and esteemed in the United Kingdom in connection with the English and Irish railways, and the Irish Exhibition. Speaking of America, he

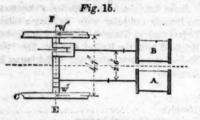
says:—
"I am greatly pleased and astonished with this county and her resources. We have no idea of their magnitude in England. Every man, from the highest to the lowest, is prosperous. Nor more so than my own humble countrymen (Mr. Roney is Irish;) and seeing what I do, my aston-ishment now is, not that so many have emigrated from Ireland, but that the whole of its peasant population had not quitted its shores forever,

Our Grand Trunk Railway and the bran that will flow into it, are going to have a wonder ful effect in developing the powers of the country. The first section of the line opens through from Portland to Montreal, a distance of 292 miles, on

Balancing Locomotive Drivers PROM D. K. CLARE'S RAILWAY MACHINERY. [Continued from page 530.]

In the goods engine of the Caledonian railway with cylinders 17×24 inches, and 6 four and a half feet coupled wheels, with the hind wheels behind the fire box, and arranged otherwise like Derosne and Cail's engine, the disturbing masses are even greater than in this, and amount in some are even greater than in this, and amount in some of the engines to 10½ cwt. for each cylinder. These engines are already partially balanced by counterweights amounting to 5½ cwt. on each side of the engine, and equivalent to about 6½ cwt. at the crank pin; but they are very unsteady laterally, and it would be difficult to place them in complete equilibrium.

Inside Cylinder Single Engines .- Let A B, fig.



15, be the cylinders, C D, the wheels, and E F, the center line of the axle; if w be the disturbing weight for one cylinder, B, referred to the crank pin, it must be opposed by two weights, w' w'', in the wheels D C, as shown in fig 16, on the same Fig. 16.



side of the axle, and together equal to the weight w. Then w=w'+w''; and making H and h the distances apart of the cylinders and the wheels, as before, we have

$$\frac{1}{2}(h-H)w' = \frac{1}{2}(h+H)w''$$
whence, reasoning as before,
$$w' = \frac{h+H}{w}, \text{ and } w'' = \frac{h-H}{u}$$

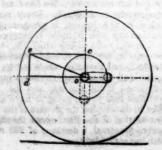
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that is, as before, the near weight w', is equal to the disturbing weight w; multiplied by the sum of the widths of the cylinders and wheels, and divided by twice the width of the wheels; and the off weight w", is equal to w multiplied by the differ-ence of the widths, and divided by twice the width

Also, as before, the balance-weights, w' w', on the near and off wheels, are to each other as the sum and the difference of widths of the cylinders and the wheels.

Finding, in the same way, the balance weights for the other cylinder, we have in each wheel two weights equal to w' and w' of which the greater is opposed to the near crank, and the less is at right angles to it, and opposed to the off crank, or just the reverse of the position for outside cylinders, as in fig. 17, showing the weights for the right hand wheel.

Fig. 17.



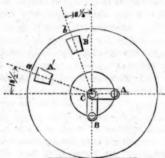
Here o d, o c, represent the elementary weights for the right hand crank; and the diagonal o e, the magnitude and direction of the resulting counterweight diverging from the off crank.

For example, let the total weight of the disturbat 540 lbs., the same as in the outside cylinder single engine already analyzed; the weights at each wheel are 407 lbs. and 133 lbs., and their resultant is 428 lbs. at an angle of 18½ with the center line of the near crank.

The equivalent counterweight may be found ar ithmetically by extracting the square root of the sum of the squares of the elementary ones: thus the square root of the sum of the squares of 407-133=428 lbs. Its direction also is found by setting off the line oe, at the inclination indicated by the ratio of the two weights: thus 407 ÷ 133=3 and the counterweight is placed in a direction diverging from the center line of the near crank, at the rate of 1 in 3.

To show the relative positions of the counter-weights in one view, let A, B, fig 18 be the right

Fig. 18.



Inside Cylinders.—Relative positions of Counter weights in wheels.

and left hand cranks, in side elevation, respectively in horizontal and vertical positions; then the coun terweight A' for the right hand wheel lies in the direction c a, at 181/2° from the center line c A, diverging from the crank \mathbf{z} ; and the counterweight \mathbf{z}' for the left hand wheel lies in the line c b, $18\frac{1}{2}^{\circ}$ from the center line c \mathbf{z} . Thus the two counterweights, on the opposite sides of the engine, incline towards each other when seen in side elevation, and their directions c a, c b, form an angle of 53° or less than a right angle by as much as twice 18½°

The angle of divergence of the counterweight from the centre line of the crank, as found in the foregoing examples, is shown to be much greater, nearly three times, for inside cylinders than for outsides: obviously on account of the more nearly equal action of the reciprocating weights of each cylinder upon the wheels, in the former case, and though inside cylinder engines are more stability of the engine is attributed. and though inside cylinder engines are more sta-ble laterally than outsides, it is still of importance to apply counterweights, both to remove the fore and aft motions, and to reduce the internal wear any that have come under our nation. of the mechanism.

counterweight from the center is not directly op-posed to that of the crank, but at a considerable angle with its center line, dependent upon the re-lative widths apart of the wheels and cylinders, and such that in side elevation the two counterweights in balance; and it should not be forgotten that incline together; the outside cranks should then every engine, Crampton's included, should be fitbe set at the necessary angle to form a correct balance, and there is every freedom for doing so, ternal stability is desirable, but also because the

Inside Cylinders.—Diagram to find the counter-weight in the wheel, or weight in the wheel.

Here a d a c represent the elementary weights in any position on the axle.

When the outside cranks are longer than the insides, the weight of the coupling rods, as well as of the cranks must be referred to the inside crank pin, to find their equivalent balancing weight.

pin, to find their equivalent balancing weight.

When the bearings are inside, the coupling rods lie close to the wheels, and may be supposed to move in the same plane with them. With outside bearings the overhung cranks and rods are so much wider than the wheels, that their extra leverage must be allowed for; and their equivalent weight at the wheels is found by multiplying their whole weight, for one side, referred to the inside whole weight, for one side, referred to the inside crank pin, by the width apart of the outside rods, and dividing by the width apart of the wheels.

When only four wheels are coupled, the balance requires to be helped with a little extra counter-weight in the wheels; it may also be raised by making the outside cranks longer. When 6 wheels are coupled, there is an excess of balance, which may be neutralized by a back counterweight to each wheel.

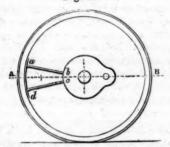
In the four coupled wheel engines made by Gouin for the Orleans railway, the total moving weight on each inside crank is 597 lbs., the wheels are four feet seven inches apart centres, and the cylinders 2 feet six inches apart. The moving weight to be balanced is found in the way already described, to be divided into 441 lbs., and 156 lbs. for each wheel on the driving axle, the resultant of which is 467 lbs. requiring to be balanced at an angle of 1914° with the center line of the inside crank. To make a perfect balance it thus appears that the outside cranks, which are equal in length to the inside ones, should be keyed at an angle of 20° with the direction of the inside cranks, and that the weight of the outside cranks referred to the crank pin and the coupling rod should be 467 lbs., supposing, as we may, that they act in the plane of the wheel. In reality their slump weight is but 353 lbs. or 114 lbs., short, and it is exactly opposed to the inside cranks; nevertheless, as the disturbing action is so materially reduced, these engines run with remarkable steadiness even at 45 miles per hour, with five feet wheels.

Crampton's Locomotives .- These engines are distinguished by the great length of their wheel base, which has in some examples been made 16 feet long, and in the Liverpool eighteen feet: also by the position of the driving axle behind the firebox, and by the great diameter of driving wheel, 7 to 8 feet. They are peculiarly steady at all speeds,—a result which is due jointly to their weight, the great distance apart of the axles—the leading and driving—which carry the greatest part of the weight, and by the reduced working velocity of the me chanism at given speeds on the rail.

In Crampton's engines the whole of the working any that have come under our notice. The posi-tion of the driving wheels in the rear is, we be-Inside Cylinder Goods-Locomotives with coupled wheels, have always been remarkable for steadiness, as the cranks and coupling rods outside, balance approximately the pistons and connecting rods. The dimensions and relative positions of the inside and outside pieces, ought to be so combined as to balance correctly. As already pointed outside cylinders, the true direction of the connerweight from the center is not directly operating wheels in the rear is, we believe the only tangible cause of the superior stability of those engines, as the unbalanced action of the reciprocating weights, operating at the extermity of the machine, is completely controlled by the mass in front of the axle. This is, however in our view, a very questionable mode of doing what can be done as directly, and certainly more rationally, by the method of counterweights; for the great length of the wheel base, well loaded at counterweight from the center is not directly opinternal forces which tend to wear down any engine at work, should be as completely neutralized as possible. We are not sure but that had the "long boiler" engine been fitted with suitable counterweights, it would have remained in favor until this day, for it had much to recommend it, in the moderated wheel base for the easy passage of curves, and in the facilities for extending the heating surface, and increasing its evaporating value per foot of area, even with the same size of freebox.

Of the Distribution and Calculation of Counterweights.—Counterweights, like the other revolving masses in the engine, are referred to the crankpin, to find their equivalent balancing weight. As they are necessarily irregular in form, the following methods of finding the center of gravity are given:—

To find the Center of Gravity of a Counterweight in one Segment.—Let A B, fig 19, be the center Fig. 19.



Driving Wheel and Counterweight in one Segment. line through the crank, of the driving wheel to be balanced and $a\ b\ c\ d$ the space to be filled, between two spokes opposed to the crank, and reaching from the nave to the rim. This space, done to a larger scale, fig. 20, is bisected by the center line

Fig. 20.

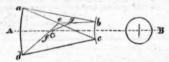
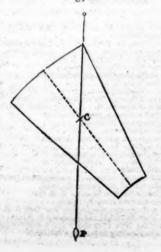


Diagram io find Center of Gravity of Counterweight.

A B. Draw a c, and bisect it at e; draw d e and e b, and set off on these lines one third of their lengths respectively, e f and e g; and draw f g. The point of intersection, c, of this line with the center 1 ne A B, is the center of gravity of the surface. So much for the geometrical process.

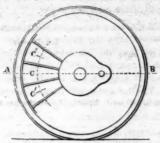
The center of gravity may be found also by cutting a templet of uniform thickness to the form of the surface, and freely suspending it by one of the corners, a, as in fig. 21; a plummet line P,





Mode of finding the Center of Gravity by Templet. dropped from the same point of suspension in front of the templet, will intersect the center line at the center of gravity, c. Reverting to fig 19, and setting off the center of gravity of the space 4 c, thus found, it stands at 22 inches from the center of the wheel.

2d. In Three Segments, fig. 22-Find the cen-Fig. 22.



Driving Wheel and Counterweights in three Seg-

tre of gravity c of one of the counterweights, as above, through c strike an arc from the center of the wheel, and crossing the center lines of the other segments at their centres c', c'', as shown more distinctly in fig 23; draw c' c'' meeting A B at D, and set off D E one third of the interval D c. Then E is the common center of gravity of the three segments, and is 20.82, or 20 13-16 inches from the centre of the wheel.

3d. In two Segments, fig. 24.—This is required when the crank is opposed to a spoke as in the figure. Find the center of gravity c, of one segment as before, and by an arc find the other center c'; draw c c' cutting A B at D, the common center of gravity.

To be continued.

Saloon Cars.

The Albany Evening Journal gives a description of the new Saloon Cars making in Troy, for the Hudson River Railroad :- The "Saloon Car" is a most magnificent fixture-combining sociability and comfort to an extent never before approached in railroad arrangements. The body of the car is of the length and nearly a foot wider than those in ordinary use. It has a hall on the right hand side, about three feet wide, out of which four saloons open, capable of seating eight persons each and one for four persons. In the larger saloons is a sofa, five chairs, a centre table and a magnificent mirror. The paneling is beautifully orna mented with landscape and other paintings; the windows and blinds are especially adapted for ventilation and for the exclusion of dust and cinders; and the whole is splendidly unique, neat and spacious. It is just what was needed for family and other parties, who, in their journeyings desire to be alone.

This "Saloon Car" will, we are quite sure be in great requisition. The fare will, of course, be more than in the ordinary cars, because it contains fewer seats. But those who can appreciate comfort, and have the means to pay for it, will cheerfully submit to the additional tax.

Independent of its novelty, the car (from the shop of Eaton and Gilbert, Troy) is a fine piece of mechanism. Only one is yet finished; but others are in progress, so, if required one can be attached to each train. And when they are so attached, we are confident they will be always filled. At all events, Mr. French, the superintendent of the Hudson River road, deserves the thanks of the travelling public for making the experiment.

Rest.

RAILROAD DEPOT FOR THE EASTERN AND LOWELL ROADS.-In the course of a week the work of constructing a new depot for the Eastern and Lowell railroad companies will be commenced. The building will occupy the entire square formed by Canal, Friend, Market and Traverse streets, being therefore very near the Boston and Maine depot. The entire length will be 322 feet, the width 145 feet, and the sides for a distance of 272 feet will be one story in height. The front, which, by the way, is on Market street, is to be three stories in height, and built of freestone. The rear part of the building will be of brick. The front will be 46 feet high, and the rear 41 feet. On the front of the building will be nine doors, and on either side, five doors and nine windows, which will be of Romanesque style of architecture. The roof will be constructed in a manner to admit the light on both sides, the entire length of the building. It will be of a different style from any other building in the city, and will combine strength, durability and beauty of architecture. The main part will be completed by the first of January next, but it is not probable that the building will be finished throughout until May or June next.

Northwestern | Railway Company.

We learn from a late number of the Galena, Ill., Advertiser, that a railway company under this name was organized in that city lately for the purpose of building a road Northwestward, commencing at the mouth of the Tete des Morts, on the west bank of the Mississippi. The following officers were chosen:

Capt. H. H. Gear, of Galena, President; Hon. Ansel Briggs, of Iowa, Vice President; R. S. Morris, Esq., of Galena, Treasurer; IE. R. Hooper, Esq., of Galena, Solicitor; G. M. Mitchell, Esq. of Galena, Secretary.

Directors—Henry Corwith, W. H. Bradley, E. B. Hooper, James Carter, S. W. McMaster, H. Newhall, Galena; Jona. Higgins, John D. Howard, Jos. Durge, J. G. Schaupp, Iowa.

Cleveland and St. Louis Railroad.

Two parties are in the field surveying the route of this road; one commencing at the Indiana State line in Mercer county, Ohio, and the other at the head of Walworth Run on the Cleveland, Columbus and Cincinnati railway. The party from Cleveland have progressed, we learn as far as Elyria, and have kept on a straight line entering that town a few hundred feet south of the Court House, The survey thus far is said to be very favorable, having light grades. The crossing of the valley of Rocky River is near General Mastics, at probably the most favorable point between its mouth and Berea. Explorations have been made from the Indiana State line to Lima, in Allen county; also from Elyria to Norwalk and the reports are favorable.—Cleveland True Democrat.

Drawing.

B. Blandowski, topographical and ornmenta draughtsman and designer. Maps accurately drawn, enlarged or reduced from notes or copies. Ornamental designs for decorations furniture, fences and ornamental foundry work. Architectural designs. Drawings from nature carefully prepared.

REFERENCES. Messrs. Miller and Freund, Ligneous Marble Works, corner of Franklin and Center streets, New York. Also H. V. Poor, and Zerah Colburn, Esqrs., Editors Railroad Journal, New York.

Address, care of Railroad Journal, 9 Spruce street New York.

Alton and Chicago Railroad.

Another division of the above road, ultimately by almost an air line, has been opened to the publie. It extends from Springfield to Lincoln station, near the county seat of Logan county, and city of Bloomington. The country through which of the stock themselves, and to take the remainthis portion of the road passes, is unsurpassed in fertility and productiveness by any in the state and being thickly settled, with an enterprising and industrious population, this extension of the road will doubtless be followed by an immediate and very perceptible improvement in its traffic. A region of country is now being penetrated by this road, which has heretofore been almost entirely dependent upon the fickle tide of the Illinois river, as a means of securing the transportation of its surplus produce to market. Consequently, it has been almost deprived of the advantage of a market during a good portion of every year, owing to the obstructions of that stream by low wa ter, and the consequent increase in the cost of carriage.

Belleville and Murphysboro Railroad.

The Belleville and Murphysboro Railroad Company was organized on the 16th inst. at the city of Belleville, by the election of the following officers Col. Lorenzo P. Sanger, President; Casper Thiel Secretary: W. W. Roman, Treasurer; W. H. Snyder, Solicitor; and Jno. A. Logan Commissioner for procuring the right of way.

This Road connects Belleville with the Central Illinois Road, and through the Belleville and Illinoistown Road brings St. Louis also into the same connection. The survey of routes will be entered on immediately, and the work of construction will The receipts, we understand, average about \$200 no doubt be prosecuted with vigor.

Canada.

Completion of the Richmond Railway.-We learn that it is more than probable the Richmond Railway will be completed before the winter sets in, and Quebec be thus in rapid communication with every great city on this continent. The road is made and the rails laid in many different places Should the iron for the bridges and the requisite quantity of rails arrive in time, the road will undoubtedly be in traveling order by the middle of November.

Stanstead Railroad.

The friends of a railroad to connect Stanstead Canada East, with the St. Lawrence Railroad at Montreal, and also with the Derby line, Vermont assembled at Stanstead last week, Mr. Tirrell, M. P., presiding, and were addressed by Gov. Fairbanks of Vermont, N. B. Baker of Concord, N. H., Mr. Drummond, Attorney-General of Lower Canada, Engineer Hayward of Boston, Col. Yale, Geo. W. Kittredge of Newmarket, N. H., Messrs. Nesmith, of Franklin, N. H., Papin and Ostelle of Montreal, President Quincy of the Concord and Montreal road, F. B. Fay of Chelsea, Mayor Low of Concold, N. H., and others. It was decided that the railroad should be built by the winter of 1854, and members of the City Council of Montreal expressed the opinion that the city would subscribe \$200,000 towards the project. The meeting adjourned to meet again when the road is com

Henderson and Nashville Railroad.

A contract has been concluded with the compadestined to connect the waters of the Mississippi ny which undertook the grading &c., for the road, at Alton, with those of Lake Michigan at Chicago, to complete this whole work, including the purchase of iron, laying the rails, and building depots. The contractors furnish everything but the rolling stock, and have agreed to finish the road ready about midway between the State Capitol and the for use, for one-third in money, to take one-third der in bonds of the company at par.

Kennebec and Somerset Railroad.

The Banner says the contractors have commenced work upon the railroad bridge of the Kennebec and Somerset Railroad, crossing the Kennebec river at Augusta. It is to be built upon four piers, 175 feet apart, and running diagonally from shore to shore. The bridge is to be ready for the rails before winter.

Terre Haute and Alton Railroad.

Advices from Terre Haute give the most gratifying intelligence of the rapid progress of the above work. The bridge over the Wabash river is being pushed to completion with all possible dispatch. Sixty men and ten horses, sent from New York by Mr. Mattoon arrived at Terre Haute last week, and immediately joined those employed in grading the road westward towards Paris. A contract has just been closed with Mr. Seward, the energetic contractor at Hillsboro, for the grading of two additional sections, and he has now a large force at work on the road. A number of tracklayers have arrived.

Missouri -- Pacific Railroad.

We are glad to learn that business of all kinds is daily increasing on the Pacific Railroad, live stock of different kinds is being brought in, and many articles of marketing, including, to-day, several barrels of fine Franklin county peaches. per day. Lumber is beginning to go out, for improvements on the line of the road—and signs of business are every where manifesting themselves. St. Louis News.

Locomotive Building.

We learn from the Cleveland Plaindealer that the Cuyahoga Works, at Ohio city, near Cleveland, Ohio, have now sent out no less than 28 superior locomotives, every one of which has reflected honor on their builders, and have been admired by all who have seen them.

The "Indiana," a new engine, started recently from Cleveland, for the Bellefontaine and Indiana railroad, where she is to run. The engine was built under the direction of Mr. Rogers, sup't, and has 16 inch cylinder, 20 inch stroke, and five feet wheel. Her construction has been much simplified and she is well worthy the title of the "model engine." We have no doubt the Indiana will meet every expectation of the B. & I. company.

The Manchester Mirror contains a list of the names of twenty four locomotives which have been completed and sent from Manchester since the middle of May. Most of them were for the Western Market.

Cleveland and Eric Railroad.

On the 11th inst., the following gentlemen were re-elected officers of this road :

Alfred Kelley, President; Wm. Case, vice-president; G. B. Ely, secretary; Parker Handy, trea

We learn that the prospects of the road are mos

Tenacity of Lake Superior Iron.

The Detroit Tribune says they have in their office a shaving cut from a cast iron shaft made of Lake Superior iron by Messrs. Johnson, Wayne & Co. of Detroit. In its present twisted state it is ten feet long, and if straight would be twenty feet. Though shaved from a cast iron shaft, as we have said, it possesses the tenacity, and we believe the malleability too, of the best wrought iron. Shavings taken from the ordinary kind of iron break of their own weight when a foot or two long. But this is almost as smooth and free from cracks as though it had been taken from a shaft of lead in the same way and is much tougher.

Memphis and Louisville Railroad.

The Memphis Eagle and Enquirer gives an encouraging account of the prospect for the construction of this road, in which, as a continuation of our connections in the south-west, Baltimore has a very direct interest. Col. Trezerant and Col. Topp, active and influential friends of the enterprise, were out on the route, and their success in securing numerous and important individual subscriptions, have more than met their expectations. The county in which Memphis is situated, has made a corporate subscription of \$300,000 to the

The Lake Erie, Wabash and St. Louis Railroad is being pushed forward with energy. A contract has recently been made for 10,000 tons of Winslow's Patent Compound Rail, for the road.

LITHOGRAPHY.

TOUBLISHERS, Civil Eng AVID CHILLA

Of RAILROAD BONDS and STOCKS; also CITY, TOWN d COUNTY BONDS, among which are

1st Mortgage Convertible Bonds:		
7 per ct.—Buffalo, Corning and New York	Paye	able in
R. R	Town W.	
7 per ct.—Western Vermont R. R.	IOW X	
7 per et Columbus Dious and Indiana	- 44	1861-71 1862
7 per ct.—Columbus, Piqua and Indiana 7 per ct.—Catawissa, Williamsport and Erie.	66	
9 per ct.—Catawissa, Williamsport and Erie.	-	1867
8 per ct.—Peoria and Oquawka		1863
6 per ct.—Maysville and Lexington	- 11	1870
6 per ct.—Dauphin and Susquehanna Coal Co.		1877
1st Mortgage Bonds:		
7 per ct.—Corning & Blossburg	66	1873
7 per ct.—Buffalo and New York City	- 66	1866
7 per ct.—Mansfield and Sandusky	"	1860
7 per ct.—Toledo, Norwalk and Cleveland 7 per ct.—Vermont Valley	- 44	1861
7 per ctVermont Valley	66	1861
7 per ct.—New Jersey Central	66	1860-70
7 per ct.—Brunswick Canal Co	- 66	1857
7 per ct.—Troy and Bennington	Croy, N	7.Y. 1862
Also, second Mortgage bonds of many of the ab and— 7 per ct.—Saratoga and Washington R. R.1		ork, 1862
7 per ct.—Troy and Boston	**	1864
7 per ctMuscogee Railroad	Bavann	ah, 1862
7 per ct.—Huron and Oxford	New Y	ork, 1862
10 per ct.—Mansfield and Sandusky R. R. Co.	66	1855-57
7 per ct.—Township of Portland, Ohio	66	1862
7 per ct.—City of Dayton, Ohio, guaranteed by		124
Mad River R. R	46	1861
10 per ct.—City of Keokuk, Iowa	Keok	ruk, 1863
7 per ct.—Town of Huron, Erie county, Ohio.	Hurc	
7 per ct.—Town of Newark, O	New Y	ork, 1860
7 per ct.—City of Sandusky, convertible into		1 1 to 1 1
Junction R. R. Stock	**	1866
7 per ct.—State of California	66	1862-72
7 per ctMortgage bonds of the Atlantic		
Steamship Co	66	1855
12 per ctImprovement Scrip of the State of	1	
Wisconsin for improvement of		
For River.		1862
Rutland and Whitehall Stock, with guarante	e of 7	per cent.
dividend by Saratoga and Washington Railroad		
Stock in the Western Vermont R. R. C		

Mad River R. R. Co

Notice to Contractors.

PROPOSALS for the Grading, Masonry and Bridging of portions of the Girard and Mo-bile railroad, will be received at the Railroad Journal Office, New York, on the 1st of October

Plans, Profiles and other required information will be furnished at that time. The entire length of the road is 225 miles; commencing at Girard, in Russell County, on the west bank of the Chattahirchu river, opposite Columbus, Ga., and running to Mobile, 52 miles south of Girard, is under contract, 23 miles nearly complete. The amount of subscription up to date is \$2,766,000. The probable cost of the road is \$4,000,000.

That portion of the line between Greenville and

Mobile (115 miles) will be placed under contract as soon as the Mobile subscription of \$1,000,600 becomes available.

ROBT. S. HARDAWAY, President. GEO. S. RUNEY, Chief Engineer. Girard Railroad Office, 6th July, 1853.

Notice to Contractors.

10 10 3 manarapanan manarapanan ST. LOUIS AND IRON MOUNTAIN RAIL-ROAD

PROPOSALS will be received at the office of Company in St. Louis, Mo., for the Gradua-tion, Masonry and Bridging of that portion of the St. Louis and Iron Mountain Railroad included between St. Louis and the Iron Mountain, or Pilot Knob, distance about 84 miles. The preliminary surveys and approximate locations are now complete, and the final location for construction in rapid progress, and may be closed by the 1st Sept. Meanwhile, profiles and plans, now ready, will, with examination of the country, give all necessary data.

The work on this road is heavy, including three tunnels, and much rock work and masonry, about 20 miles of the road, shows "side-hill" work, and the balance heavy through work. The Iron Mountain is 700 feet above the river at St. Louis; but two principal depressions are to be crossed before reaching that height. The country passed through is healthy and well watered.

Proposals will be received (by quantities) for the whole or a part of the road, but contracts will only be made with responsible parties. No contracts will be closed before the 15th of August, and no sooner thereafter than satisfactory offers are received from responsible parties. The road will hereafter be extended to the Arkansas line, to connect with the Cairo and Fulton road, and a branch to the Mississippi River, at Cairo or new Madrid, is also contemplated. WM. M. M'PHERSON, Pres't.

THOS. S. O'SULLIVAN, Consulting Engineer. J. H. MORLEY, Eng. in Charge. 4w. St. Louis, July 21, 1853.

BRANDS' LIQUID,

FOR DISSOLVING AND PREVENTING INCRUSTATIONS IN STEAM BOILERS.

INCRUSTATIONS IN STEAM BOILERS,
Is acknowledged by all who have used it, to be the best preventive ever introduced to the notice of the public. It is not
injurious to the Boilers, even if used in large quantities, and is
now in general use in a great part of Europe, on Railroads and
Steamboats, and for Stationary Boilers.

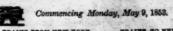
By the use of this liquid, old incrusted boilers, and principally
tubular boilers, which from their construction are in general very
difficult and in some cases impossible to be cleaned, may be freed from incrustation in a few days, and by the continued use of
it kept entirely free from any future accumulation, thereby increasing the generation of steam, reducing the consumption of
their and diminishing the danger of explosions.

The proprietors of Brands Liquid are so confident of the merits of this invention, that they offer one barrel grafts to parties
willing to make a trial, and to be paid for only in case of suc-

Directions for the use of Brands' Liquid, with testimoulais, to gether with full particulars, may be obtained from the Agents, Messra. BOURRY & ROEDER, Consulting and Mechanical Engineers, Aug. 10, 1853.

N. York and N. Haven R. R.

NOTICE OF SUMMER ARRANGEMENTS.



TRAINS FROM NEW YORK.

7 A. M.—Accommodation to 5.30 A.M.—Special, from Port Chester.

8 A. M.—Express for Boston, 5.00 A.M.—Commutation from stopping at Stamford and Bridge port.

9.10 A.M.—Special for Port 8.15 A.M.—Accommodation fm stopping at ford and Bridge 6.10 A. New Accommodation to Chester.

Special for Port 8.15 A.M.—Accommodation to New Haven.

Accommodation for New Haven, Stopping at Bridgeport, Nor walk and Stamford

Boston Express at Bridge 0,10 A.M.—Accommodation for New Haven, stopping at Stamford, Norwalk and Bridgeport, walk and Stamford and Bridgeport, Norwalk and Stamford Waven. and Brugosco.

4.00 P.M.—Accommodation for New Haven.

5.00 P.M.—Express for Boston.

stopping at N. Haven.

4.00 P.M.—Special, from Por Chester.

4.00 P.M.—Accommodation for New Haven.

Accommutation for N. Accommodation in New Haven. Boston Express stopping at Bridge port, Norwalk and Stamford. 5.35 P.M.—Commutation for N. Haven. 6.30 P.M.—Special for Port Chester.

GEORGE W. WHISTLER, Jr., Sup't. New Haven, May, 1853.

SIXTY MILES DISTANCE SAVEDI—ONLY THIRTY-SIX
AND A HALF HOURS TO CHICAGO.
MICHIGAN SOUTHERN RAILROAD LINE, carrying the
Great Western U. S Through Mail—FOR CHICAGO AND
ST. LOUIS, MILWAUKEE, RACINE KENOSHA, and all
Ports on Lake Michigan.—Through from Buffelo to Monroe IN ST. LOUIS, MILWAUKER, Prough from Buffalo to Monroe In Ports on Lake Michigan.—Through from Buffalo to Monroe In FOURTEEN HOURS WITHOUT LANDING.

The following magnificent and unequalled steamers from the line between Buffalo and Monroe:

EMPIRE STATE. J. WILSON, Commander, leaves Buffalo

EMPIRE STATE. J. WILSON, Commander, seaves Bussian Mondays and Thursdays.

SOUTHERN MICHIGAN, A. D. Perrins, Commander, leaves Bussian Tuesdays and Fridays.

NORTHERN INDIANA, I. T. Pheatt, Commander, leaves Bussian Wednesdays and Saturdays.

One of the above splendid steamers will leave the Michigan Southern Railroad Line Dock, at 9 o'clock, P. M. every day, (except Sundays) and run direct through to Monroe without landing, in 14 hours, where the Lightning Express Train will be in waiting to take pussengers direct to Chicago in 8 hours; arriving next evening after leaving Bussian.

THE LAKE SHORE RAILROAD.

THE LAKE SHORE RALLROAD.

runs in connection with this line, forming the only continuous line of Railroad to Chicago and the Illinois River.

For Through Tickets, by New-York and Eric and Buffalo and New-York City Railroad via Buffalo, or by the People's Line of Steamboats, Hudson River Railroad via Albany and Buffalo, ap-

JOHN F. PORTER, Agent, No. 193 Broadway, corner Dey-st., N. Y.

No. 193 Broadway, comer Dey-st., N. Y.

CREAT WESTERN MAIL LINE.—SIXTY
MILES DISTANCE SAVED, by taking the MICHIGAN
SOUTHERN AND NORTHERN INDIANA RAILROAD.—
Through tickets for Chicago, St. Louis, Milwaukee, Racine, Kenosha, Waukegan, and Sheboygen, by New York and Erie Railroad via Dunkirk, and Buffalo and New York City Railroad; ye
People's Line of Steamboats, Hudson River Railroad, via Buffalo, connecting at Buffalo with the splendid ateamers EMPIRE
STATE, J. WILSON, Commander, Mondays and Thursdays;
SOUTHERN MICHIGAN, D. PERKINS, Commander, Wednesdays and Saturdays; NORTHERN INDIANA, I. T. PHRATT,
COmmander, Tuesdays and Fridays; leaving Buffalo every evening (Sundays excepted.) These ateamers are low pressure,
built expressly for the Lake trade, and for finish, speed, strongth
and safety, have no superiors anywhere.

The connections with the Express Trains at Toledo and Morroe, for Chicago and St. Louis, are perfect, and can be relied
upon.

Forty betty from New York to Chicago. Time and recover.

roe, for Chicago and St. Assass, to Chicago. Time and money saved by taking this Line, Passengers preferring it, can take the Lake Shore Railroad to Toledo, the Michigan Southern and Northern Indiana Railroad to Chicago, thence by the Rock Island Railroad to La Salle, forming the only continuous line of Railroad to the Hillingis river. For through tickets or freight apply to JOHN F. PORTER, Agent, 193 Broadway, cor., Dey st.

New York and Erie R. R.

PASSENGER TRAINS leave Pier foot of Duane street, as follows, viz:—

DAY EXPRESS, at 6 a. m., for Buffalo direct, over the N. Y. and E. R. R., and the Buffalo and N. York City R. R., without hange of baggage or cars; and also for Dunkirk.

MAIL, at 8 a. m. for Dunkirk and Buffalo, and all intermediate tations. Passengers by this train will remain over night at any tation between Susquehanns and Corning, and proceed the next

ACCOMMODATION, at 12% p.m. for Delaware and all int

diate stations.

WAY, at 3½ p.m., for Delaware and all intermediate stations.

NIGHT EXPENSE, at 6 p. m. for Dunkirk and Buffalo.

EMIGHANY, at 7 p.m. for Dunkirk and all intermediate stations on Sundays only one Express Train—at 6 p.m.

The Express Trains connect at Dunkirk with the Lake Sison Railroad for Cleveland, Cincinnati, Chicago, etc., and at Buffale with first class splendid steamers for Cleveland, Sandusky, Tole do, Detroit and Chicago.

CHAS MINOT, Sup'L

\$1,000,000 Loan

\$1,000,000 LITTLE MIAMIRALL-FER CENT FIRST MORTGAGE BONDS FOR

OFFICE OF WINSLOW LANIER & Co. No. 58 Wall st., June 18, 1852 THE LITTLE MIAMI RAILROAD COMPANY offer for sale ONE MILLION of their SIX PER oner for sale UNE MILLION of their SIX PER CENT BONDS, with Coupons, Interest and Principal payable in New York, the former half-yearly, ist of November and 1st of May.

They are in sums of \$1,000 each, payable 1st of May, 1883.

These Bonds are issued under express authority of the Legislature of the State of Ohio; are a part of the \$1,500,000 Loan authorized to be issued by a vote of the stockholders, for the purpose of raising means to make a double track; the greatly increased and increasing business of the road makes

The Little Miami Railroad is eighty-four miles long, commencing at the City of Cincinnati and terminating at Springfield; is now in complete running order; has cost, including equipments, stations, station houses, &c., up to this date, \$2,-

708,109 19.

This Company own stock in the Columbus and Xenia Railroad Company to the amount of \$386, 000, which now commands a premium of 20 per cent. Also in the Hillsborough Road, to the amount. of \$11,716.

The receipts of the Road have been as follows: For the year ending—

December 1, 1844.....\$18,632 26

 December 1, 1849
 321,398 82

 December 1, 1850
 405,597 24

 December 1, 1851
 487,845 89

 December 1, 1852.....

The receipts from Dec. 1 to May 1, (last 5 months).... For the same time the year before 172,281 18

The position of this road being the natural, thortest and most usually travelled route from Cincinnati and the vast country south and west of it, to the northern cities, must ever make it one of the most important and profitable lines in the country.

An inspection of a map will show its connections to be many and important. This road operates the Columbus and Xenia road, and runs in con-nection with the Cleveland and Columbus road, in fact they are now run as one line, greatly to the

advantage of all.

Regular annual 10 per cent. dividends have been declared since December, 1847, with an extra dividend of five per cent in 1851. In 1852 two cash

dividends, each 10 per cent, were made.

The present surplus and reserved fund amounts to \$98,546 16.

Value of security \$4,208,109 19

cannot be increased.

The Stock owned by the Road in the Columbus and Xenia and Hillsborough Railways will much more than pay off the \$100,000 prior lien to the

city of Cincinnati, and all other debts of the Company, except this loan of \$1,500,000.

Sealed Proposals will be received for any sum not less than \$1,000, until Thursday, the 1st of September next, at 3 o'clock P. M.

Proposals will be addressed to WINSLOW, LANIER & Co., Agents of the Company, No 52 Wall st., New York, indorsed "Proposals for the Little Miami Railroad Bonds."

One-half the purchase money will be required to be paid at the time of accepting the bids, the residue in thirty and sixty days. Any purchaser

will be at liberty to pay in full at once.

Interest on the Bonds will run from the day of

The above \$1,000,000 will be sold absolutely

and without reserve to the highest bidder.

For further information apply at our office.

WINSLOW, LANIER & Co.

Notice to Contractors.

BUFFALO & PITTSBURGH RAILROAD Sealed proposals will be received at the Engineer's Office, in the city of Buffalo, until the first day of September next, for the graduation, masonry, and for the entire construction of the line of road, (about 20 miles,) between Ellicottville and the Pennsylvania State Line, in the valley of the Tunungwant.

Plans and Specifications will be ready for inspection at the office of the Engineer on and after the 20th day of August inst. The proposals may be made for the grading masonry, ties, fencing and entire construction in a single proposition, or for the same and all items separately and in independ-ent propositions; and proposals as above for a single section or any number of sections will be received; the Company reserving the right to reject such propositions as are not satisfactory. Proposals will also be received in like manner, for the balance of the road from Ellicottville to the city of Buffalo, distance about 50 miles, up to the 20th day of September. Plans and specifications for which will be ready for examination at the office of the Engineer from and after the 10th day of Sept. next.

Any further information desired may be obtained by addressing Hon, Orlando Allen, President of the Company, Buffalo.

Proposals are invited from contractors of ability for the whole road. Buffalo, August 2, 1853. au4t31 E. R. BLACKWELL, Chief Engineer

To Contractors.

NORTHERN INDIANA RAILROAD.

EALED PROPOSALS will be received at the office of the Company in Toledo, Ohio, until the first day of September next, at noon, for grubbing and clearing, grading, bridging, superstructure and fencing of that section of the new line of said Road, from its junction with the Auburn and Bel River Railroad, to the town of Goshen, in Elkert county, In a distance of 51 miles. The line Eel River Railroad, to the town of Goshen, in Eikhart county, Ia., a distance of 51 miles. The line is divided into sections of about one mile containing from 7,000 to 65,000 yards of earthwork each, and in the aggregate about one million yards.—Proposals may be made for one or more sections, Maps and Profiles of the line, and plans and specifications of the work, may be examined at the office of the company in Toledo, on and after the 90th of August inst. 20th of August inst.

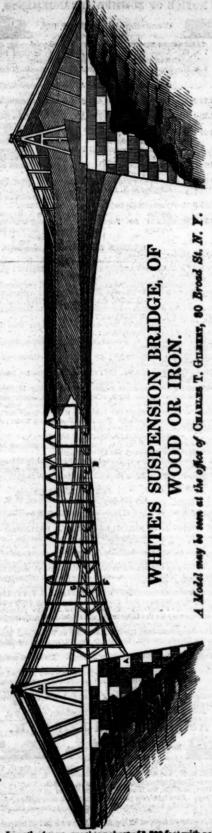
The directors reserve the right to accept or re ject proposals, as they may deem the interests of the company to require.

J. H. SARGENT. Asst. Chief Engineer.
Office of Nor Ind. R. B. Co.,
Toledo, August 4th, 1853.

India-Rubber Railroad Car Springs, etc.

the United States Car Spring Company, having completed their new Factory, are manufacturing and furning to Railroad Companies, and Car Builders, RUBBER PRINGS of the best quality, on the most favorable terms. Also, McMuller's superior WHITE HOSE, not only for throads, but all other purposes, and of any size or thickness paired.

Office No. 25 Cliff street, 1885.



Notice to Contractors.

JEFFERSONVILLE RAILROAD.

SEALED Proposals will be received at the office of the Company at Jeffersonville, Indiana, until 10 o'clock, A. M., on Wednesday, the 7th day September, 1853, for the clearing, grading and bridging the road between Edinburg and Indiana-

Proposals may be made for sections, divisions, or the entire-line, about 30 miles, payable in the 7 per cent mortgage bonds of the Company or part bonds and part cash, and also for payments entirely in cash.

The company reserves the right to accept such proposals as in their judgement will best secure the prompt construction of the road, and to reject all, if none are satisfactory.

The route traverses a fertile country, furnishing

abundant supplies of all kinds, and the line is easy of access at all points.

Bidders will please give their post office ad-

WILLIAM G. ARMSTRONG, President. Jeffersonville, July 9, 1853.

Notice to Contractors.

HE UNDERSIGNED will receive proposals, at THE UNDERSIGNED will receive property the railroad office in Indianapolis, to construct the Fairoad omce in Indianapolis, to construct
the Evansville, Indianapolis, and Cleveland Straight
Line Railroad from Evansville to Indianapolis.
The proposals will be for the whole line, 150 miles,
more or less, or for either of the three sections of
about 50 miles each. First from Evansville to the
crossings of the Ohio, and Mississippi railroad in
Davise's Co.,; second, from that point to Spencer, Owen county; Third, From that point to Indianapolis. The bid will be for the whole work the dianapolis. The bid will be for the whole work the com sany finding the iron, chairs, and spikes), up to the rolling machinery, or for the earth and rockwork alone. The proposal will state what part of the pay will be received in real estate, bonds, and stock of the company.

O. H. SMITH, President. WILLARD CARPENTER, Vice President. Augt. 13, 1853.

Railroad Spikes.

THE Subscribers are manufacturing Railroad Spikes with Swerr's Patent Improved Machines; and are prepared to execute orders for any quantity, on the most favorable terms. These Spikes are made of the best quality of iron, and, for shape and finish, are superior to any others. Railroad companies and others in want, are respectfully solicited to order a sample before purchasing elsewhere. All orders will receive prompt attention.

SWETT, ELLIOT & CO.
Pittsburgh, Pa., August 25, 1853.

OFFICE CINCINNATI, HAMILTON and DAY-TON Railroad Company.—Cincinnati, Aug. 9th, 1853.—The directors of this company have this day declared a dividend of five per cent. on their capital stock, payable to the stockholders registered in Cincinnati on demand, and to those registered in New York, on and after the 25th inst., at the office of the Ohio Life Insurance and Trust Company, in New York.

FRANK S. BOND, Sec'y.

Book and Job Printing.

The undersigned have added to the PRINTING ESTABLISHMENT of the "RAILROAD JOURNAL," an extensive OFFICE for BOOK AND JOB PRINTING, which they are now prepared to execute in the BEST manner, and with DISPATCH. They respectfully solicit from RAILROAD COM-PANIES, orders for the PRINTING of Exhibits, Time-tables, Circulars, Tickets, 4-c., 4-c.

J. H. SCHULTZ & CO.

New York April 9, 1858.